

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1-464A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Complete if Known Application Number 10/645,304 Filing Date August 21, 2003 First Named Inventor Samuel I. STUPP et al. Art Unit 1654 Examiner Name Marcela M. Cordero Garcia Attorney Docket Number NANO 104 US2 (NU 22070)	
Sheet	1	of	21	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	4554101	11-19-1985	Hopp	
	A2	4930077	05-29-1990	Fan	
	A3	5130123	07-14-1992	Reynolds et al.	
	A4	5208111	05-04-1993	Decher et al.	
	A5	5670483	09-23-1997	Zhang et al.	
	A6	5733866	03-31-1998	Peterson et al.	
	A7	5843780	12-01-1998	Thomson	
	A8	5855343	09-21-1999	Holmes et al.	
	A9	5993541	11-30-1999	Litvin et al.	
	A10	8051272	04-18-2000	Stupp et al.	
	A11	6085206	07-04-2000	Domini et al.	
	A12	6181909 B1	01-30-2001	Burstein et al.	
	A13	8201065 B1	03-13-2001	Pathak et al.	
	A14	6269368 B1	07-31-2001	Diamond	
	A15	6391297 B1	05-21-2002	Halvorsen	
	A16	6473730 B1	10-29-2002	McKeown et al.	
	A17	6548630 B1	04-15-2003	Zhang et al.	
	A18	6562619 B1	05-13-2003	Gearhart et al.	
	A19	6800481 B1	10-05-2004	Holmes et al.	
	A20	2002007217 A1	01-17-2002	Jacob et al.	
	A21	20020046018 A1	04-18-2002	Marcu et al.	
	A22	20020142277 A1	10-03-2002	Burstein et al.	
	A23	20020180471 A1	10-31-2002	Kieley et al.	
	A24	20030059906 A1	03-27-2003	Hubbell et al.	
	A25	20030176335 A1	09-18-2003	Zhang et al.	
	A26	20040018961 A1	01-29-2004	Stupp et al.	
	A27	20040022718 A1	02-05-2004	Stupp et al.	
	A28	20040258728 A1	12-23-2004	Stupp et al.	
	A29	20050272662 A1	12-08-2005	Stupp et al.	
	A30	20060149036 A1	07-06-2006	Stupp et al.	
	A31	11/737,316	01-23-2006	Stupp et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Foreign Patent Document Country Code ² Number ² Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	B1	JP 03099098 A	04-24-1991	Shimizu et al.	
	B2	WO 97/14713 A1	04-24-1997	Perrier et al.	
	B3	WO 97/20639 A1	06-12-1997	Arnebrant et al.	
	B4	WO 00/13710 A2	03-16-2000	Jennings et al.	
	B5	WO 00/64481 A1	11-02-2000	Sakiyama et al.	
	B6	WO 00/44808 A1	08-03-2000	Elbert et al.	
	B7	WO 00/52145 A2	09-08-2000	Robt et al.	
	B8	WO 01/00950 A1	01-04-2001	Chapman et al.	
	B9	WO 02/062969 A2	08-15-2002	Semino et al.	

Examiner Signature	Date Considered
--------------------	-----------------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/645,304
		Filing Date	August 21, 2003
		First Named Inventor	Samuel I. STUPP et al.
		Art Unit	1654
		Examiner Name	Marcela M. Cordero Garcia
Sheet	2	of	21
		Attorney Docket Number	NANO 104 US2 (NU 22070)

	B10	WO 03/040336 A2	05-15-2003	Fishman et al.	
	B11	WO 03/054146 A2	07-03-2003	Stupp et al.	
	B12	WO 03/070749 A2	08-28-2003	Stupp et al.	
	B13	WO 03/084960 A2	10-16-2003	Stupp et al.	
	B14	WO 03/090255 A2	10-30-2003	Stupp et al.	
	B15	WO 2004/003561 A1	01-08-2004	Stupp et al.	
	B16	WO 2004/018628 A2	03-04-2004	Stupp et al.	
	B17	WO 2004/024778 A2	03-25-2004	Stupp et al.	
	B18	WO 2004/046167 A2	06-03-2004	Stupp et al.	
	B19	WO 2004/072104 A2	08-26-2004	Stupp et al.	
	B20	WO 2004/106359 A2	12-09-2004	Stupp et al.	
	B21	WO 2005/003292 A2	01-13-2005	Stupp et al.	
	B22	WO 2005/056039 A1	06-23-2005	Stupp et al.	
	B23	WO 2005/056576 A2	06-23-2005	Stupp et al.	
	B24	WO 2006/096614 A2	09-14-2006	Stupp et al.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO. Those application(s) which are marked with a single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.84(a)(2)(ii)) because that application was filed after June 30, 2003 or is available in the IPW. * Applicant's unique citation designation number (optional). * See kinds codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. * Error Office that issued the document, by the two-letter code (WIPO Standard ST 3). * For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. * Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible. * Applicant is to place a check mark here if English language translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s), publisher, city and/or country where published.			T ²
	C1	Brown, Walter E. December 15, 1962. "Octacalcium Phosphate and Hydroxyapatite." <i>Nature</i> . Vol. 196, pp. 1048-1050.			
	C2	Liang, W. Y. and A. D. Yoffe. January 8, 1968. "Transmission Spectra of ZnO Single Crystals." <i>Physical Review Letters</i> . Vol. 20, No. 2, pp. 59-62.			
	C3	Greenfield, Norma and Gerald D. Fasman. October 1969. "Computed Circular Dichroism Spectra for the Evaluation of Protein Conformation." <i>Biochemistry</i> . Vol. 8, No. 10, pp. 4108-4116.			
	C4	Hantke, Klaus and Volkmar Bman. 1973. "Covalent Binding of Lipid to Protein Diglyceride and Amide-Linked Fatty Acid at the N-Terminal End of the Murein-Lipoprotein of the <i>Escherichia coli</i> Outer Membrane." <i>Eur. J. Biochem.</i> Vol. 34, No. 2, pp. 284-296.			
	C5	Belcseri, James S., E. S. Pysh, G. M. Bonora, and C. Toniolo. June 9, 1976. "Vacuum Ultraviolet Circular Dichroism of β -Forming Alkyl Oligopeptides." <i>Journal of the American Chemical Society</i> . Vol. 98, No. 12, pp. 3470-3473.			
	C6	Jacobson, Bruce S. and Daniel Branton. January 21, 1977. "Plasma Membrane: Rapid Isolation and Exposure of the Cytoplasmic Surface by Use of Positively Charged Beads." <i>Science</i> . Vol. 195, No. 4275, pp. 302-304.			
	C7	Biesecker, G. J., Jean Harris, J. C. Thierry, J. E. Walker, and A. J. Wonacott. March 24, 1977. <i>Nature</i> Vol. 266, pp. 328-333.			
	C8	Kelly, Margaret M., E. S. Pysh, G. M. Bonora, and C. Toniolo. May 11, 1977. "Vacuum Ultraviolet Circular Dichroism of Protected Homooligomers Derived from L-Leucine." <i>Journal of the American Chemical Society</i> . Vol. 99, No. 10, pp. 3264-3266.			
	C9	Blumenthal, N. C., A. S. Posner, I. D. Silverman, and I. C. Rosenberg. 1979. "Effect of Proteoglycans on <i>In Vitro</i> Hydroxyapatite Formation." <i>Calcified Tissue International</i> . Vol. 27, No. 1, pp. 75-82.			
	C10	Richardson, P. M., U. M. McGuinness, and A. J. Aguayo. March 20, 1980. "Axons from CNS			

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/GPTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/645,304
		Filing Date	August 21, 2003
		First Named Inventor	Samuel I. STUPP et al.
		Art Unit	1654
		Examiner Name	Marcela M. Cordero Garcia
Sheet	3	of	21
		Attorney Docket Number	NANO 104 US2 (NU 22070)

	Neurons Regenerate into PNS Grafts." <i>Nature</i> . Vol. 284, pp. 264-265.	
C11	Lim, Franklin and Anthony M. Sun. November 21, 1980. "Microencapsulated Islets as Bioartificial Endocrine Pancreas." <i>Science</i> . Vol. 210, No. 4472, pp. 908-910.	
C12	Jain, Rakesh K., Chhitar M. Gupta, and Nitya Anand. 1981. "Synthesis of Peptidylglycophospholipids, Novel Derivatives of Munsyl-Dipeptide." <i>Tetrahedron Letters</i> . Vol. 22, No. 24, pp. 2317-2320.	
C13	Sarin, Virender K., Stephen B. H. Kent, James P. Tam, and R. B. Merrifield. 1981. "Quantitative Monitoring of Solid-Phase Peptide Synthesis by the Ninhydrin Reaction." <i>Analytical Biochemistry</i> . Vol. 117, pp. 147-157.	
C14	Yannas, I. V., J. F. Burke, D. P. Orgill, E. M. Skrabut. January 8, 1982. "Wound Tissue Can Utilize a Polymeric Template to Synthesize a Functional Extension of Skin." <i>Science</i> . Vol. 215, No. 4529, pp. 174-176.	
C15	Montesano, R., L. Orci, and P. Vassalli. November 1983. "In Vitro Rapid Organization of Endothelial Cells into Capillary-like Networks Is Promoted by Collagen Matrices." <i>The Journal of Cell Biology</i> . Vol. 97, pp. 1648-1652.	
C16	Pierschbacher, Michael D. and Erkki Ruoslahti. May 3, 1984. "Cell Attachment Activity of Fibronectin Can Be Duplicated by Small Synthetic Fragments of the Molecule." <i>Nature</i> . Vol. 309, pp. 30-33.	
C17	Landis, W. J. and J. R. Martin. April-June 1984. "X-Ray Photoelectron Spectroscopy Applied to Gold-Decorated Mineral Standards of Biological Interest." <i>J. Vac. Sci. Technol.</i> Vol. A, 2, No. 2, pp. 1108-1111.	
C18	Thompson, Nancy L., Adrienne A. Brian, and Harden M. McConnell. 1984. "Covalent Linkage of a Synthetic Peptide to a Fluorescent Phospholipid and Its Incorporation into Supported Phospholipid Monolayers." <i>Biochimica et Biophysica Acta</i> . Vol. 772, pp. 10-19.	
C19	Addadi, L. and S. Weiner. June 15, 1985. "Interactions Between Acidic Proteins and Crystals: Stereochemical Requirements in Biomineralization." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 82, No. 12, pp. 4110-4114.	
C20	"Public Health Service Policy on Humane Care and Use of Laboratory Animals." September 1986. Office for Protection from Research Risks (OPRR), National Institutes of Health.	
C21	Weiner, Stephen and Wolfie Traub. October 1986. "Organization of Hydroxyapatite Crystals Within Collagen Fibrils." <i>FEBS Letters</i> . Vol. 206, No. 2, pp. 262-266.	
C22	Mann, Stephen, John P. Hamington, and R. J. P. Williams. December 11, 1986. "Phospholipid Vesicles as a Model System for Biomineralization." <i>Nature</i> . Vol. 324, pp. 565-567.	
C23	Krimm, Samuel and Jagdeesh Bandekar. 1986. "Vibrational Spectroscopy and Conformation of Peptides, Polypeptides, and Proteins." <i>Advances in Protein Chemistry</i> . Vol. 38, pp. 181-364.	
C24	de Groot, K., R. Geesink, C. P. A. T. Klein, and P. Sereksian. December 1987. "Plasma Sprayed Coatings of Hydroxyapatite." <i>Journal of Biomedical Materials Research</i> . Vol. 21, No. 12, pp. 1375-1381.	
C25	Bresnahan, J. C., M. S. Beattie, F. D. Todd III, and D. H. Noyes. 1987. "A Behavioral and Anatomical Analysis of Spinal Cord Injury Produced by a Feedback-Controlled Impaction Device." <i>Experimental Neurology</i> . Vol. 95, pp. 548-570.	
C26	Moscatelli, David. 1987. "High and Low Affinity Binding Sites for Basic Fibroblast Growth Factor on Cultured Cells: Absence of a Role for Low Affinity Binding in the Stimulation of Plasminogen Activator Production by Bovine Capillary Endothelial Cells." <i>Journal of Cellular Physiology</i> . Vol. 131, pp. 123-130.	
C27	Lambert, Joseph B., Herbert F. Shurvell, David A. Lightner, and R. Graham Cooks. 1987. "Group Frequencies: Infrared and Raman." <i>Introduction to Organic Spectroscopy</i> . New York: Macmillan Publishing Company. Pp. 169-182.	
C28	Cook, Stephen D., Kevin A. Thomas, John F. Kay, and Michael Jarcho. July 1988. "Hydroxyapatite-Coated Titanium for Orthopedic Implant Applications." <i>Clinical Orthopaedics and Related Research</i> . No. 232, pp. 225-243.	
C29	Saksela, Olli, David Moscatelli, Andreas Sommer, and Daniel B. Rifkin. August 1988. "Endothelial	

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/GPTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/645,304
		Filing Date	August 21, 2003
		First Named Inventor	Samuel I. STUPP et al.
		Art Unit	1654
		Examiner Name	Marcela M. Cordero Garcia
Sheet	4	of	21
		Attorney Docket Number	NANO 104 US2 (NU 22070)

	Cell-Derived Heparan Sulfate Binds Basic Fibroblast Growth Factor and Protects It from Proteolytic Degradation." <i>The Journal of Cell Biology</i> . Vol. 107, pp. 743-751.
C30	Cardin, Alan D. and H. J. R. Weisstraub. January/February 1989. "Molecular Modeling of Protein-Glycosaminoglycan Interactions." <i>Atherosclerosis</i> . Vol. 9, No. 1, pp. 21-32.
C31	Oonishi, H., M. Yamamoto, H. Ishimaru, E. Tsuji, S. Kusikami, M. Aono, and Y. Ukon. March 1989. "The Effect of Hydroxyapatite Coating on Bone Growth into Porous Titanium Alloy Implants." <i>The Journal of Bone and Joint Surgery</i> . Vol. 71-B, No. 2, pp. 213-216.
C32	Friedmann, Theodore. June 16, 1989. "Progress Toward Human Gene Therapy." <i>Science</i> . Vol. 244, No. 4910, pp. 1275-1281.
C33	Trub, Wolfie, Talmon Arad, and Stephen Weiner. December 15, 1989. "Three-Dimensional Ordered Distribution of Crystals in Turkey Tendon Collagen Fibers." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 86, No. 24, pp. 9822-9826.
C34	Knor, Reinhard, Arnold Trzeciak, Willi Banwarth, and Dieter Gillesen. 1989. "New Coupling Reagents in Peptide Chemistry." <i>Tetrahedron Letters</i> . Vol. 30, No. 15, pp. 1927-1930.
C35	Sanbrook, Joseph, Edward F. Fritsch, and Thomas Maniatis. 1989. "Genes Encoding Selectable Markers." <i>Molecular Cloning: A Laboratory Manual</i> . 2nd ed. New York: Cold Spring Harbor Laboratory Press. Pp. 16.9-16.15.
C36	Veis, A. 1989. "Biochemical Studies of Vertebrate Tooth Mineralization." <i>Biomineralization</i> . S. Mann, J. Webb, and R. J. P. Williams, editors. Weinheim, Federal Republic of Germany: VCH Verlagsgesellschaft and New York: VCH Publishers. Pp. 189-222.
C37	Schmell, Lisa and Martin E. Schwab. January 18, 1990. "Axonal Regeneration in the Rat Spinal Cord Produced by an Antibody Against Myelin-Associated Neurite Growth Inhibitors." <i>Nature</i> . Vol. 343, pp. 269-272.
C38	Ahn, Sang Tee and Thomas A. Mustoe. January 1990. "Effects of Ischemia on Ulcer Wound Healing: A New Model in the Rabbit Ear." <i>Annals of Plastic Surgery</i> . Vol. 24, No. 1, pp. 17-23.
C39	Van de Pol, Frans C. M. December 1990. "Thin-Film ZnO—Properties and Applications." <i>Ceramic Bulletin</i> . Vol. 69, No. 12, pp. 1959-1965.
C40	Addadi, L., A. Berman, J. Moradian-Oldak, and S. Weiner. December 28, 1990. "Tuning of Crystal Nucleation and Growth by Proteins: Molecular Interactions at Solid-Liquid Interfaces in Biomineralization." <i>Croatica Chemica Acta</i> . Vol. 63, No. 3, pp. 539-544.
C41	Sukerik, Chaim N., Natarajan Balachander, Lloyd A. Culp, Kristine Lewandowska, and Katherine Merritt. 1990. "Modulation of Cell Adhesion by Modification of Titanium Surfaces with Covalently Attached Self-Assembled Monolayers." <i>Journal of Biomedical Materials Research</i> . Vol. 24, pp. 1307-1323.
C42	Fields, C. G., D. H. Lloyd, R. L. Macdonald, K. M. Olsson, and R. L. Noble. March/April 1991. "HBTU Activation for Automated Fmoc Solid-Phase Peptide Synthesis." <i>Peptide Research</i> . Vol. 4, No. 2, pp. 95-101.
C43	Harris, Robin, Editor. 1991. <i>Electron Microscopy in Biology: A Practical Approach</i> . New York: Oxford University Press.
C44	Jackson, David Y., David S. King, Jean Chmielewski, Sunil Singh, and Peter G. Schultz. 1991. "General Approach to the Synthesis of Short α -Helical Peptides." <i>Journal of the American Chemical Society</i> . Vol. 113, pp. 9391-9392.
C45	Polverini, Peter J., Noel P. Bouck, and Farzan Rastinejad. 1991. "Assay and Purification of Naturally Occurring Inhibitor of Angiogenesis." <i>Methods in Enzymology</i> . Vol. 198, pp. 440-450.
C46	Weiner, Stephen and Wolfie Trub. February 1992. "Bone Structure: From Angstroms to Microns." <i>The FASEB Journal</i> . Vol. 6, pp. 879-885.
C47	Addadi, Lisa and Stephen Weiner. 1992. "Control and Design Principles in Biological Mineralization." <i>Angew. Chem. Int. Ed. Engl.</i> Vol. 31, pp. 133-169.
C48	Beresford, J. N., J. H. Bennett, C. Devlin, P. S. Leboy, and M. E. Owen. 1992. "Evidence for an Inverse Relationship Between the Differentiation of Adipocytic and Osteogenic Cells in Rat Marrow Stromal Cell Cultures." <i>Journal of Cell Science</i> . Vol. 102, pp. 341-351.

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/GPTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/645,304
		Filing Date	August 21, 2003
		First Named Inventor	Samuel I. STUPP et al.
		Art Unit	1654
		Examiner Name	Marcela M. Cordero Garcia
Sheet	5	of	21
		Attorney Docket Number	NANO 104 US2 (NU 22070)

C49	Cook, Stephen D., Kevin A. Thomas, Jeanette E. Dalton, Todd K. Volkman, Thomas S. Whiteseloud III, and John F. Kay. 1992. "Hydroxylapatite Coating of Porous Implants Improves Bone Ingrowth and Interface Attachment Strength." <i>Journal of Biomedical Materials Research</i> . Vol. 26, pp. 989-1001.
C50	Geshien, Robert L., G. Marc Loudon, Lisa A. Paige, and David Lloyd. 1992. "A General Method for Preparation of Peptides Biotinylated at the Carboxy Terminus." <i>Analytical Biochemistry</i> . Vol. 202, pp. 68-70.
C51	Ghadiri, M. Reza, Christopher Soares, and Chong Choi. 1992. "Design of an Artificial Four-Helix Bundle Metalloprotein via a Novel Ruthenium(II)-Assisted Self-Assembly Process." <i>Journal of the American Chemical Society</i> . Vol. 114, No. 10, pp. 4000-4002.
C52	Kusitaka, Toyoki. 1992. "Synthetic Bilayer Membranes: Molecular Design, Self-Organization, and Application." <i>Angew. Chem. Int. Ed. Engl.</i> Vol. 31, pp. 709-726.
C53	Stupp, Samuel I. and Glenn W. Ciegler. 1992. "Organosapitites: Materials for Artificial Bone. I. Synthesis and Microstructure." <i>Journal of Biomedical Materials Research</i> . Vol. 26, pp. 169-183.
C54	Surewicz, Witold K., Henry H. Mantsch, and Dennis Chapman. January 19, 1993. "Determination of Protein Secondary Structure by Fourier Transform Infrared Spectroscopy: A Critical Assessment." <i>Biochemistry</i> . Vol. 32, No. 2, pp. 389-394.
C55	Zhang, Shuguang, Todd Holmes, Curtis Lockshin, and Alexander Rich. April 15, 1993. "Spontaneous Assembly of a Self-Complementary Oligopeptide to Form a Stable Macroscopic Membrane." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 90, No. 8, pp. 3334-3338.
C56	Langer, Robert and Joseph P. Vacanti. May 14, 1993. "Tissue Engineering." <i>Science</i> . Vol. 260, No. 5110, pp. 920-926.
C57	Mulligan, Richard C. May 14, 1993. "The Basic Science of Gene Therapy." <i>Science</i> . Vol. 260, No. 5110, pp. 926-932.
C58	Massas, R., S. Pitaru, and M. M. Weinreb. June 1993. "The Effects of Titanium and Hydroxyapatite on Osteoblastic Expression and Proliferation in Rat Parietal Bone Cultures." <i>Journal of Dental Research</i> . Vol. 72, No. 6, pp. 1005-1008.
C59	Archibald, Douglas D. and Stephen Mann. July 29, 1993. "Template Mineralization of Self-Assembled Anisotropic Lipid Microstructures." <i>Nature</i> . Vol. 364, pp. 430-433.
C60	Atala, Anthony, Linda G. Cima, Woosob Kim, Keith T. Paige, Joseph P. Vacanti, Alan B. Retik, and Charles A. Vacanti. August 1993. "Injectable Alginate Seeded with Chondrocytes as a Potential Treatment for Vesicoureteral Reflux." <i>The Journal of Urology</i> . Vol. 150, No. 2, pp. 745-747.
C61	Ross-Murphy, S. B. and K. P. Shatwell. May-August 1993. "Polysaccharide Strong and Weak Gels." <i>Biorheology</i> . Vol. 30, Nos. 3 & 4, pp. 217-227.
C62	Margalit, Hanah, Nurit Fischer, and Shmuel A. Ben-Sasson. September 15, 1993. "Comparative Analysis of Structurally Defined Heparin Binding Sequences Reveals a Distinct Spatial Distribution of Basic Residues." <i>The Journal of Biological Chemistry</i> . Vol. 268, No. 26, pp. 19228-19231.
C63	Fowler, Bruce O., Milenko Marković, and Walter F. Brown. 1993. "Octacalcium Phosphate. 3. Infrared and Raman Vibrational Spectra." <i>Chem. Mater.</i> Vol. 5, No. 10, pp. 1417-1423.
C64	Fuhrhop, Jürgen-Hinrich, Drgan Spinski, and Christoph Boettcher. 1993. "Molecular Monolayer Rods and Tubules Made of α -(L-Lysine)- ω -(Amino) Bolasamphiphiles." <i>Journal of the American Chemical Society</i> . Vol. 115, No. 4, pp. 1600-1601.
C65	Graham, Stephan and Paul W. Brown. 1993. "The Low Temperature Formation of Octacalcium Phosphate." <i>Journal of Crystal Growth</i> . Vol. 132, pp. 215-225.
C66	Shimizu, Toshiaki and Masakazu Hato. 1993. "Self-Assembling Properties of Synthetic Peptide Lipids." <i>Biochimica et Biophysica Acta</i> . Vol. 1147, pp. 50-58.
C67	Stupp, Samuel I., Jacqueline A. Hanson, Jo Ann Eurell, Glenn W. Ciegler, and Ann Johnson. 1993. "Organosapitites: Materials for Artificial Bone. III. Biological Testing." <i>Journal of Biomedical Materials Research</i> . Vol. 27, pp. 301-311.
C68	Stupp, Samuel I., George C. Mejjano, and Jacqueline A. Hanson. 1993. "Organosapitites: Materials for Artificial Bone. II. Hardening Reactions and Properties." <i>Journal of Biomedical Materials</i>

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/GPTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Complete if Known Application Number 10/645,304 Filing Date August 21, 2003 First Named Inventor Samuel I. STUPP et al. Art Unit 1654 Examiner Name Marcela M. Cordero Garcia Attorney Docket Number NANO 104 US2 (NU 22070)	
Sheet	6	of	21	

		<i>Research</i> . Vol. 27, pp. 289-299.	
C69	Wald, Heidi L., Georgios Samkinos, Michelle D. Lyman, Antonios G. Mikos, Joseph P. Vacanti, and Robert Langer. 1993. "Cell Seeding in Porous Transplantation Devices." <i>Biomaterials</i> . Vol. 14, No. 4, pp. 270-278.		
C70	Walsh, Dominic, Joanne L. Kingston, Brigid R. Heywood, and Stephen Mann. 1993. "Influence of Monosaccharides and Related Molecules on the Morphology of Hydroxyapatite." <i>Journal of Crystal Growth</i> . Vol. 133, pp. 1-12.		
C71	Wang, B. C., T. M. Lee, E. Chang, and C. Y. Yang. 1993. "The Shear Strength and the Failure Mode of Plasma-Sprayed Hydroxyapatite Coating to Bone: The Effect of Coating Thickness." <i>Journal of Biomedical Materials Research</i> . Vol. 27, pp. 1315-1327.		
C72	San Antonio, James D., Arthur D. Lander, Morris J. Karnovsky, and Henry S. Slayter. June 1994. "Mapping the Heparin-Binding Sites on Type I Collagen Monomers and Fibrils." <i>The Journal of Cell Biology</i> . Vol. 125, No. 5, pp. 1179-1188.		
C73	Ben, S., S. Maruno, H. Iwata, and H. Itoh. 1994. "Calcium Phosphate Precipitation on the Surface of HIA-G-Ti Composite Under Physiologic Conditions." <i>Journal of Biomedical Materials Research</i> . Vol. 28, pp. 65-71.		
C74	de Bruijn, J. D., Y. P. Bovell, and C. A. van Blitterswijk. 1994. "Structural Arrangements at the Interface Between Plasma Sprayed Calcium Phosphates and Bone." <i>Biomaterials</i> . Vol. 15, No. 7, pp. 543-550.		
C75	Hunter, Graeme K. and Harvey A. Goldberg. 1994. "Modulation of Crystal Formation by Bone Phosphoproteins: Role of Glutamic Acid-Rich Sequences in the Nucleation of Hydroxyapatite by Bone Sialoprotein." <i>Biochem J</i> . Vol. 302, pp. 175-179.		
C76	Klein, C. P. A. T., J. G. C. Wolke, J. M. A. de Bleeck-Hogervorst, and K. de Groot. 1994. "Calcium Phosphate Plasma-Sprayed Coatings and Their Stability: An <i>In Vivo</i> Study." <i>Journal of Biomedical Materials Research</i> . Vol. 28, pp. 909-917.		
C77	Mikos, Antonios G., Michelle D. Lyman, Lisa E. Freed, and Robert Langer. 1994. "Wetting of Poly(L-Lactic Acid) and Poly(DL-Lactic-co-glycolic Acid) Foams for Tissue Culture." <i>Biomaterials</i> . Vol. 15, No. 1, pp. 55-58.		
C78	Bond, G. M., R. H. Richman, and W. P. McNaughton. June 1995. "Mimicry of Natural Material Designs and Processes." <i>Journal of Materials Engineering and Performance</i> . Vol. 4, No. 3, pp. 334-345.		
C79	Hubbell, Jeffrey A. June 1995. "Biomaterials in Tissue Engineering." <i>BioTechnology</i> . Vol. 13, pp. 565-576.		
C80	Fromm, J. R., R. E. Hileman, E. E. O. Caldwell, J. M. Weiler, and R. J. Linhardt. November 10, 1995. "Differences in the Interaction of Heparin with Arginine and Lysine and the Importance of these Basic Amino Acids in the Binding of Heparin to Acidic Fibroblast Growth Factor." <i>Archives of Biochemistry and Biophysics</i> . Vol. 323, No. 2, pp. 279-287.		
C81	Wakitani, Shigeyuki, Tomoyuki Saito, and Arnold I. Caplan. December 1995. "Myogenic Cells Derived from Rat Bone Marrow Mesenchymal Stem Cells Exposed to 5-Azacytidine." <i>Muscle & Nerve</i> . Vol. 18, pp. 1417-1426.		
C82	Alexas, Alexios, Kleomenis Barlos, Dimitrios Gatos, Sophia Koutsogianni, and Petros Mamos. 1995. "Preparation of the Very Acid-Sensitive Fmoc-Lys(Mtt)-OH." <i>International Journal of Peptide & Protein Research</i> . Vol. 45, pp. 488-496.		
C83	Bernick, Peter, Gregg B. Fields, and Matthew Tirrell. 1995. "Synthetic Lipidation of Peptides and Amino Acids: Monolayer Structure and Properties." <i>Journal of the American Chemical Society</i> . Vol. 117, No. 37, pp. 9315-9322.		
C84	Gage, Fred H., Jashdhan Ray, and Lisa J. Fisher. 1995. "Isolation, Characterization, and Use of Stem Cells from the CNS." <i>Annual Review of Neuroscience</i> . Vol. 18, pp. 159-192.		
C85	Nomizu, Motoyoshi, Benjamin S. Weeks, Christi A. Weston, Woo Ilho Kim, Hynda K. Kleinman, and Yoshitohko Yamada. 1995. "Structure-Activity Study of a Laminin $\alpha 1$ Chain Active Peptide Segment Ile-Lys-Val-Ala-Val (IKVAV)." <i>FEBS Letters</i> . Vol. 365, pp. 227-231.		

Examiner Signature	Date Considered
--------------------	-----------------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/GPTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/645,304
		Filing Date	August 21, 2003
		First Named Inventor	Samuel I. STUPP et al.
		Art Unit	1654
		Examiner Name	Marcela M. Cordero Garcia
Sheet	7	of	21
		Attorney Docket Number	NANO 104 US2 (NU 22070)

C86	Saito, Tomoyuki, James E. Dennis, Donald P. Lennon, Randall G. Young, and Arnold I. Caplan. 1995. "Myogenic Expression of Mesenchymal Stem Cells Within Myotubes of mdx Mice <i>In Vitro</i> and <i>In Vivo</i> ." <i>Tissue Engineering</i> . Vol. 1, No. 4, pp. 327-343.
C87	Sasagawa, Michio. 1995. "Optical Processes in ZnO." <i>J. Phys.: Condens. Matter</i> . Vol. 7, pp. 10029-10036.
C88	Zhang, Shuguang, Todd C. Holmes, C. Michael DiPersio, Richard O. Hynes, Xing Su, and Alexander Rich. 1995. "Self-Complementary Oligopeptide Matrices Support Mammalian Cell Attachment." <i>Biomaterials</i> . Vol. 16, No. 18, pp. 1385-1393.
C89	Felini, Giuseppe, Shm Albeck, Steve Weiner, and Lin Addadi. January 5, 1996. "Control of Aragonite or Calcite Polymorphism by Mollusk Shell Macromolecules." <i>Science</i> . Vol. 271, No. 5245, pp. 67-69.
C90	Alivisatos, A. P. February 16, 1996. "Semiconductor Clusters, Nanocrystals, and Quantum Dots." <i>Science</i> . Vol. 271, No. 5251, pp. 933-937.
C91	Key, Bruce A., Lea T. Berlesau, Hung V. Nguyen, Helen Chen, Henry Heinsohn, Richard Vandien, and Napoleone Ferrara. March 29, 1996. "The Carboxyl-terminal Domain (111-165) of Vascular Endothelial Growth Factor Is Critical for Its Mitogenic Potency." <i>The Journal of Biological Chemistry</i> . Vol. 271, No. 13, pp. 7788-7795.
C92	Belcher, A. M., X. H. Wu, R. J. Christensen, P. K. Hansma, G. D. Stucky, and D. E. Morse. May 2, 1996. "Control of Crystal Phase Switching and Orientation by Soluble Mollusk-Shell Proteins." <i>Nature</i> . Vol. 381, pp. 56-58.
C93	Hortelano, Gonzalo, Ayman Al-Hendy, Frederick A. Ofofsu, and Patricia L. Chang. June 15, 1996. "Delivery of Human Factor IX in Mice by Encapsulated Recombinant Myoblasts: A Novel Approach Towards Allogeneic Gene Therapy of Hemophilia B." <i>Blood</i> . Vol. 87, No. 12, pp. 5095-5103.
C94	Sultzbaugh, K. J. and T. J. Spenser. July-August 1996. "A Method to Attach Lectins to the Surface of Spermine Alginate Microcapsules Based on the Avidin Biotin Interaction." <i>J. Microencapsulation</i> . Vol. 13, No. 4, pp. 363-375.
C95	Alivisatos, A. Paul, Kai P. Johnson, Xiangang Peng, Troy E. Wilson, Colin J. Loweth, Marcel P. Burcher Jr., and Peter G. Schultz. August 15, 1996. "Organization of 'Nanocrystal Molecules' Using DNA." <i>Nature</i> . Vol. 382, pp. 609-611.
C96	George, Anne, Leslie Bannion, Boris Sabsay, Jerry W. Dillon, James Malone, Arthur Veis, Nancy A. Jenkins, Debra J. Gilbert, and Neal G. Copeland. December 20, 1996. "The Carboxyl-terminal Domain of Phosphorylcholine Contains Unique Extended Triplet Amino Acid Repeat Sequences Forming Ordered Carboxyl-Phosphate Interaction Ridges That May Be Essential in the Biomimetic Mineralization Process." <i>The Journal of Biological Chemistry</i> . Vol. 271, No. 51, pp. 32869-32873.
C97	Basso, D. Michele, Michael S. Bentine, and Jacqueline C. Bresnahan. 1996. "Graded Histological and Locomotor Outcomes after Spinal Cord Contusion Using the NYU Weight-Drop Device Versus Transection." <i>Experimental Neurology</i> . Vol. 139, pp. 244-256.
C98	Burkett, Sandra L. and Stephen Mann. 1996. "Spatial Organization and Patterning of Gold Nanoparticles on Self-Assembled Lipid Tubular Templates." <i>Chem. Commun.</i> Pp. 321-322.
C99	Hunter, Graeme K., Peter V. Hauachka, A. Robin Poole, Lawrence C. Rosenberg, and Harvey A. Goldberg. 1996. "Nucleation and Inhibition of Hydroxyapatite Formation by Mineralized Tissue Proteins." <i>Biochem J.</i> Vol. 317, pp. 59-64.
C100	Karymou, Michael A., Karel Procházka, John M. Mendenhall, Thomas J. Martin, Peter Munk, and Stephen E. Webber. 1996. "Chemical Attachment of Polystyrene-block-poly(methacrylic acid) Micelles on a Silicon Nitride Surface." <i>Langmuir</i> . Vol. 12, No. 20, 4748-4753.
C101	Landis, William J., Karen J. Hodgins, James Arena, Mia Ja Song, and Bruce F. McEwen. 1996. "Structural Relations Between Collagen and Mineral in Bone as Determined by High Voltage Electron Microscopic Tomography." <i>Microscopy Research and Technique</i> . Vol. 33, pp. 192-202.
C102	Matsuzawa, Mielko, Forrest F. Weigt, Richard S. Potember, and Páris Lissi. 1996. "Directional Neurite Outgrowth and Axonal Differentiation of Embryonic Hippocampal Neurons Are Promoted by a Neurite Outgrowth Domain of the B2-Chain of Laminin." <i>Int. J. Dev. Neuroscience</i> . Vol. 14, No. 3, pp. 283-295.

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/GPTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/645,304
		Filing Date	August 21, 2003
		First Named Inventor	Samuel I. STUPP et al.
		Art Unit	1654
		Examiner Name	Marcela M. Cordero Garcia
Sheet	8	of	21
		Attorney Docket Number	NANO 104 US2 (NU 22070)

C103	Mooney, David J., Daniel F. Baldwin, Nam P. Suh, Joseph P. Vacanti, and Robert Langer. 1996. "Novel Approach to Fabricate Porous Sponges of Poly(D,L-Lactic-co-glycolic Acid) Without the Use of Organic Solvents." <i>Biomaterials</i> . Vol. 17, No. 14, pp. 1417-1422.
C104	Ratner, Buddy D., Allan S. Hoffman, Frederick J. Schwen, and Jack E. Lemons, Editors. 1996. <i>Biomaterials Science: An Introduction to Materials in Medicine</i> . San Diego, CA: Academic Press.
C105	Ullman, Abraham. 1996. "Formation and Structure of Self-Assembled Monolayers." <i>Chemical Reviews</i> . Vol. 96, No. 4, pp. 1533-1554.
C106	Yu, Ying-Ching, Peter Berndt, Matthew Tirrell, and Gregg B. Fields. 1996. "Self-Assembling Amphiphiles for Construction of Protein Molecular Architecture." <i>Journal of the American Chemical Society</i> . Vol. 118, No. 50, pp. 12515-12520.
C107	Zarif, Leila, Ange Polidori, Bernard Pucci, Tadek Gulik-Krzywicki, André A. Pavia, and Jean G. Riess. 1996. "Effect of Chirality on the Formation of Tubules from Glycolipid Amphiphiles." <i>Chemistry and Physics of Lipids</i> . Vol. 79, pp. 165-170.
C108	Aggeli, A., M. Bell, N. Boden, J. N. Keen, P. F. Knowles, T. C. B. McLeish, M. Fitzkeithly, and S. E. Radford. March 20, 1997. "Responsive Gels Formed by the Spontaneous Self-Assembly of Peptides into Polymeric β -Sheet Tapes." <i>Nature</i> . Vol. 386, pp. 259-262.
C109	Herr, Andrew B., David M. Ornitz, Ram Sasisekharan, Ganesh Venkataraman, and Gabriel Waksman. June 27, 1997. "Heparin-Induced Self-Association of Fibroblast Growth Factor-2." <i>The Journal of Biological Chemistry</i> . Vol. 272, No. 26, pp. 16382-16389.
C110	Dimmeler, Stefanie and Andreas M. Zeiler. August 1997. "Nitric Oxide and Apoptosis: Another Paradigm for the Double-Edged Role of Nitric Oxide." <i>NITRIC OXIDE: Biology and Chemistry</i> . Vol. 1, No. 4, pp. 275-281.
C111	Stupp, Samuel I. and Paul V. Braun. August 29, 1997. "Molecular Manipulation of Microstructures: Biomaterials, Ceramics, and Semiconductors." <i>Science</i> . Vol. 277, No. 5330, pp. 1242-1248.
C112	Kaufmann, P. M., S. Heimrath, B. S. Kim, and D. J. Mooney. September/October 1997. "Highly Porous Polymer Matrices as a Three-Dimensional Culture System for Hepatocytes." <i>Cell Transplantation</i> . Vol. 6, No. 5, pp. 463-468.
C113	Aggeli, Amalia, Mark Bell, Neville Boden, Jeff N. Keen, Tom C. B. McLeish, Irina Nyrkova, Shoona E. Radford, and Alexander Semenov. 1997. "Engineering of Peptide β -Sheet Nanotapes." <i>J. Mater. Chem.</i> Vol. 7, No. 7, pp. 1135-1145.
C114	Anderson, James M. and Matthew S. Shive. 1997. "Biodegradation and Biocompatibility of PLA and PLGA Microspheres." <i>Advanced Drug Delivery Reviews</i> . Vol. 28, pp. 5-24.
C115	Drager, Kurt Ingar, Gudmund Stjåk-Bæk, Olav Smidsrud. 1997. "Alginates Based New Materials." <i>International Journal of Biological Macromolecules</i> . Vol. 21, pp. 47-55.
C116	El-Channam, Ahmed, Paul Ducheyne, and Irving M. Shapiro. 1997. "Porous Bioactive Glass and Hydroxyapatite Ceramic Affect Bone Cell Function <i>In Vitro</i> Along Different Time Lines." <i>Journal of Biomedical Materials Research</i> . Vol. 36, pp. 167-180.
C117	Jaiswal, Neelam, Stephen E. Haynesworth, Arnold I. Caplan, and Scott P. Bruder. 1997. "Osteogenic Differentiation of Purified, Culture-Expanded Human Mesenchymal Stem Cells <i>In Vitro</i> ." <i>Journal of Cellular Biochemistry</i> . Vol. 64, pp. 295-312.
C118	Nehrer, Stefan, Howard A. Breinan, Arun Ramappa, Sonya Shortkroff, Gretchen Young, Tom Minas, Clement B. Sledge, Ioannis V. Yannas, and Myron Spector. 1997. "Canine Chondrocytes Seeded in Type I and Type II Collagen Implants Investigated <i>In Vitro</i> ." <i>Journal of Biomedical Materials Research (Appl. Biomater.)</i> . Vol. 38, pp. 95-104.
C119	Mann, Stephen. 1997. "Biomimeticization: The Formidable Part of Bioinorganic Chemistry!" <i>J. Chem. Soc., Dalton Trans.</i> pp. 3953-3961.
C120	Norby, Kira. 1997. "Angiogenesis: New Aspects Relating to Its Initiation and Control." <i>APMIS</i> . Vol. 105, pp. 417-437.
C121	Shimizu, Toshimi, Masaki Kogiso, and Mitsutoshi Masuda. 1997. "Noncovalent Formation of Polyglycine II-Type Structure by Hexagonal Self-Assembly of Linear Polymolecular Chains." <i>Journal of the American Chemical Society</i> . Vol. 119, No. 26, pp. 6209-6210, S2-S17.

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/GPTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known Application Number 10/645,304 Filing Date August 21, 2003 First Named Inventor Samuel I. STUPP et al. Art Unit 1654 Examiner Name Marcela M. Cordero Garcia Attorney Docket Number NANO 104 US2 (NU 22070)	
Sheet	9	of	21		

C122	Smith, George P. and Valery A. Petreanu. 1997. "Phage Display." <i>Chemical Reviews</i> . Vol. 97, No. 2, pp. 391-410.
C123	Toyotama, Akiko, Shin-ichi Kugimiya, Masakatsu Yoneda, Takatoshi Kinoshita, and Yoshiharu Tsuruta. 1997. "Controllable Orientation of the Peptide-Based Surfactant at Air-Water Interface." <i>Chemistry Letters</i> . pp. 443-444.
C124	Weiner, Stephen and Lin Addadi. 1997. "Design Strategies in Mineralized Biological Materials." <i>J. Mater. Chem.</i> Vol. 7, No. 5, pp. 689-702.
C125	Wellings, Donald A. and Eric Atherton. 1997. "Standard Enzyme Protocols." <i>Methods in Enzymology</i> . Vol. 289, pp. 44-67.
C126	Wen, H. B., J. G. C. Wolke, J. R. de Wijn, Q. Liu, F. Z. Cui, and K. de Groot. 1997. "Fast Precipitation of Calcium Phosphate Layers on Titanium Induced by Simple Chemical Treatments." <i>Biomaterials</i> . Vol. 18, No. 22, pp. 1471-1478.
C127	Yu, Ying-Ching, Teika Kakino, Yoav Dori, James B. McCarthy, Matthew Tirrell, and Gregg B. Fields. 1997. "Construction of Biologically Active Protein Molecular Architecture Using Self-Assembling Peptide-Amphiphiles." <i>Methods in Enzymology</i> . Vol. 289, pp. 571-587.
C128	Zhmomirsky, I. and L. Gal-Or. 1997. "Electrophoretic Deposition of Hydroxyapatite." <i>Journal of Materials Science: Materials in Medicine</i> . pp. 213-219.
C129	Veis, Arthur, Kuiru Wei, Charles Sfeir, Anne George, and James Malone. January 1998. "Properties of the (DSS), Triplet Repeat Domain of Rat Dealin Phosphophoryn." <i>European Journal of Oral Sciences</i> . Vol. 106 (suppl. 1), pp. 234-238.
C130	Pincus, David W., Robert R. Goodman, Richard A. R. Fraser, Malen Nedergaard, and Steven A. Goldman. April 1998. "Neural Stem and Progenitor Cells: A Strategy for Gene Therapy and Brain Repair." <i>Neurosurgery</i> . Vol. 42, No. 4, pp. 858-867.
C131	Ogiso, M., Y. Yamashita, and T. Matsumoto. June 1998. "The Process of Physical Weakening and Dissolution of the HA-Coated Implant in Bone and Soft Tissue." <i>Journal of Dental Research</i> . Vol. 77, No. 6, pp. 1426-1434.
C132	Petko, Wendy A., James L. Harden, Kevin P. McGrath, Denis Wirtz, and David A. Tirrell. July 17, 1998. "Reversible Hydrogels from Self-Assembling Artificial Proteins." <i>Science</i> . Vol. 281, No. 5375, pp. 389-392.
C133	Ogill, Dennis P., Charles Butler, John F. Regan, Mark S. Barlow, I. V. Yannas, and Carolyn C. Compton. August 1998. "Vascularized Collagen-Glycosaminoglycan Matrices Provides a Dermal Substrate and Improves Take of Cultured Epithelial Autografts." <i>Plastic and Reconstructive Surgery</i> . Vol. 102, No. 2, pp. 423-429.
C134	Yu, Ying-Ching, Matthew Tirrell, and Gregg B. Fields. October 7, 1998. "Minimal Lipidation Stabilizes Protein-Like Molecular Architecture." <i>Journal of the American Chemical Society</i> . Vol. 120, No. 39, pp. 9979-9987.
C135	Borkenhagen, M., J.-F. Clémence, H. Sigrist, and P. Aebischer. 1998. "Three-Dimensional Extracellular Matrix Engineering in the Nervous System." <i>Journal of Biomedical Materials Research</i> . Vol. 40, pp. 392-400.
C136	Brekke, John H. and Jeffrey M. Toth. 1998. "Principles of Tissue Engineering Applied to Programmable Osteogenesis." <i>Journal of Biomedical Materials Research (Appl. Biomater.)</i> . Vol. 43, pp. 380-398.
C137	Gu, Keai, Syveria R. Chang, Matt S. Slaven, Brian H. Clarkson, R. Bruce Rutherford, and Helena H. Ritchie. 1998. "Human Desmin Phosphophoryn Nucleotide and Amino Acid Sequence." <i>European Journal of Oral Sciences</i> . Vol. 106, pp. 1043-1047.
C138	Hartgerink, Jeffrey D., Thomas D. Clark, and M. Reza Ghadiri. 1998. "Peptide Nanotubes and Beyond." <i>Chem. Eur. J.</i> Vol. 4, No. 8, pp. 1367-1372.
C139	Johnstone, Brian, Thomas M. Hering, Arnold I. Caplan, Victor M. Goldberg, and Jung U. Yoo. 1998. "In Vitro Chondrogenesis of Bone Marrow-Derived Mesenchymal Progenitor Cells." <i>Experimental Cell Research</i> . Vol. 238, pp. 265-272.
C140	Kawasaki, M., A. Ohmoto, I. Ohkubo, H. Koizumi, Z. K. Tsang, P. Yu, G. K. L. Wong, B. P. Zhang.

Examiner Signature	Date Considered
--------------------	-----------------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/GPTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
Application Number				10/645,304	
Filing Date				August 21, 2003	
First Named Inventor				Samuel I. STUPP et al.	
Art Unit				1654	
Examiner Name				Marcela M. Cordero Garcia	
Attorney Docket Number				NANO 104 US2 (NU 22070)	
Sheet	10	of	21		

	and Y. Segawa. 1998. "Excitonic Ultraviolet Laser Emission at Room Temperature from Naturally Made Cavity in ZnO Nanocrystal Thin Films." <i>Materials Science and Engineering</i> . Vol. B56, pp. 239-245.
C141	Kogiso, Masaki, Satoshi Ohnishi, Kiyoshi Yase, Mitsutoshi Masuda, and Toshimi Shimizu. 1998. "Dicarboxylic Oligopeptide Bolaamphiphiles: Proton-Triggered Self-Assembly of Microtubes with Loose Solid Surfaces." <i>Langmuir</i> . Vol. 14, No. 18, pp. 4978-4986, S1-S7.
C142	Kogiso, Masaki, Takeshi Hanada, Kiyoshi Yase, and Toshimi Shimizu. 1998. "Intralayer Hydrogen-Bond-Directed Self-Assembly of Nano-Fibers from Dicarboxylic Valyl-Lysine Bolaamphiphiles." <i>Chem. Comm.</i> Pp. 1791-1792.
C143	Li, Panjian and Paul Ducheyne. 1998. "Quasi-Biological Apatite Film Induced by Titanium in a Simulated Body Fluid." <i>Journal of Biomedical Materials Research</i> . Vol. 41, pp. 341-348.
C144	Nanci, A., J. D. Wuest, L. Peru, P. Brunet, V. Sharma, S. Zalzal, and M. D. McKee. 1998. "Chemical Modification of Titanium Surfaces for Covalent Attachment of Biological Molecules." <i>Journal of Biomedical Materials Research</i> . Vol. 40, pp. 324-335.
C145	Tsui, Y. C., C. Doyle, and T. W. Clyne. 1998. "Plasma Sprayed Hydroxyapatite Coatings on Titanium Substrates Part 2: Optimisation of Coating Properties." <i>Biomaterials</i> . Vol. 19, pp. 2031-2043.
C146	Weiner, S. and H. D. Wagner. 1998. "The Material Bone: Structure-Mechanical Function Relations." <i>Annu. Rev. Mater. Sci.</i> Vol. 28, pp. 271-298.
C147	Wen, H. B., J. R. de Wijn, F. Z. Cui, and K. de Groot. 1998. "Preparation of Calcium Phosphate Coatings on Titanium Implant Materials by Simple Chemistry." <i>Journal of Biomedical Materials Research</i> . Vol. 41, pp. 227-236.
C148	Wheeler, Donna L., David L. Chamberland, John M. Schmitt, David C. Buck, John H. Brekke, Jeffrey O. Hollinger, S.-P. Joh, and K.-W. Suh. 1998. "Radiomorphometry and Biomechanical Assessment of Recombinant Human Bone Morphogenetic Protein 2 and Polymer in Rabbit Radius Osteotomy Model." <i>Journal of Biomedical Materials Research (Appl. Biomater.)</i> . Vol. 43, pp. 365-373.
C149	Wolke, J. G. C., K. de Groot, and J. A. Jansen. 1998. "In Vivo Dissolution Behavior of Various RF Magnetron Sputtered Ca-P Coatings." <i>Journal of Biomedical Materials Research</i> . Vol. 39, pp. 524-530.
C150	Xiao, Shou-Jun, Marcus Textor, and Nicholas D. Spencer. 1998. "Covalent Attachment of Cell-Adhesive, (Arg-Gly-Asp)-Containing Peptides to Titanium Surfaces." <i>Langmuir</i> . Vol. 14, No. 19, pp. 5507-5516.
C151	Xu, Guofeng, Nan Yao, Ilhan A. Aksay, and John T. Groves. 1998. "Biomimetic Synthesis of Macroscopic-Scale Calcium Carbonate Thin Films. Evidence for a Multistep Assembly Process." <i>Journal of the American Chemical Society</i> . Vol. 120, No. 46, pp. 11977-11985.
C152	Yamada, Norihiro, Katsuhiko Ariga, Masanobu Naito, Kazuhiro Matsubara, and Emiko Koyama. 1998. "Regulation of β -Sheet Structures Within Amyloid-Like β -Sheet Assemblage from Tripeptide Derivatives." <i>Journal of the American Chemical Society</i> . Vol. 120, No. 47, pp. 12192-12199.
C153	Chussek, Charles C., D. Wayne Goodman, Michael J. Van Stipdonk, Dine R. Justes, and Emile A. Schweikert. January 1, 1999. "Calcium Phosphate Phase Identification Using XPS and Time-of-Flight Cluster SIMS." <i>Analytical Chemistry</i> . Vol. 71, No. 1, pp. 149-153.
C154	Zabarev, Eugene R., Martin U. Fulle, Leiming Li, and Samuel I. Stupp. January 22, 1999. "Conversion of Supramolecular Chesters to Macromolecular Objects." <i>Science</i> . Vol. 283, pp. 523-526.
C155	Won, You-Yeon, H. Ted Davis, and Frank S. Bates. February 12, 1999. "Giant Wormlike Rubber Micelles." <i>Science</i> . Vol. 283, No. 5404, pp. 960-963.
C156	Corral, Claudio J., Asim Siddiqui, Liancun Wu, Catherine L. Farrell, David Lyons, and Thomas A. Mustoe. February 1999. "Vascular Endothelial Growth Factor Is More Important Than Basic Fibroblastic Growth Factor During Ischemic Wound Healing." <i>Arch. Surg.</i> Vol. 134, pp. 200-205.
C157	Wheeler, B. C., J. M. Corey, G. J. Brewer, and D. W. Branch. February 1999. "Microcontact Printing for Precise Control of Nerve Cell Growth in Culture." <i>Journal of Biomechanical Engineering</i> . Vol. 121, pp. 73-78.
C158	Cao, H., Y. G. Zhao, S. T. Ho, E. W. Seelig, Q. H. Wang, and R. P. H. Chang. March 15, 1999.

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/GPTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/645,304
		Filing Date	August 21, 2003
		First Named Inventor	Samuel I. STUPP et al.
		Art Unit	1654
		Examiner Name	Marcela M. Cordero Garcia
Sheet	11	of	21
		Attorney Docket Number	NANO 104 US2 (NU 22070)

	"Random Laser Action in Semiconductor Powder." <i>Physical Review Letters</i> . Vol. 82, No. 11, pp. 2278-2281.	
C159	Aizenberg, Joanna, Andrew I. Black, and George M. Whitesides. April 8, 1999. "Control of Crystal Nucleation by Patterned Self-Assembled Monolayers." <i>Nature</i> . Vol. 398, pp. 495-498.	
C160	Niklason, L. E., J. Gao, W. M. Abbott, K. K. Hirschi, S. Houser, R. Marini, and R. Langer. April 16, 1999. "Functional Arteries Grown in Vitro." <i>Science</i> . Vol. 284, pp. 489-493.	
C161	Hahn, Jungsook and Stephen E. Webber. April 1999. "Modification of Surfaces by Covalent Attachment of Polymer Micelles." <i>Macromolecular Symposia</i> . Vol. 139, pp. 39-47.	
C162	Liu, Yi, Duckhyun Kim, B. Timothy Himes, Stella Y. Chow, Timothy Schallert, Marion Murray, Alan Tassler, and Urbach Fischer. June 1, 1999. "Transplants of Fibroblasts Genetically Modified to Express BDNF Promote Regeneration of Adult Rat Spinal Axons and Recovery of Forelimb Function." <i>The Journal of Neuroscience</i> . Vol. 19, No. 11, pp. 4370-4387.	
C163	Mehler, Mark F. and John A. Kessler. July 1999. "Progenitor Cell Biology: Implications for Neural Regeneration." <i>Arch. Neurol.</i> Vol. 56, pp. 780-784.	
C164	Tirrell, M. October 27, 1999. "Biofunctionalization of Surfaces with Peptide Amphiphiles." <i>AIChE Science & Technology</i> . Invited Paper BI-W6M7.	
C165	McDonald, John W., Xiao-Zhong Liu, Yun Qu, Su Liu, Shannon K. Mickey, Dorothy Turetsky, David I. Gottlieb, and Dennis W. Choi. December 1999. "Transplanted Embryonic Stem Cells Survive, Differentiate and Promote Recovery in Injured Rat Spinal Cord." <i>Nature Medicine</i> . Vol. 5, No. 12, pp. 1410-1412.	
C166	Bradt, Jens-Hilmar, Michael Mertig, Angelika Teresiak, and Wolfgang Pompe. 1999. "Biomimetic Mineralization of Collagen by Combined Fibril Assembly and Calcium Phosphate Formation." <i>Chem. Mater.</i> Vol. 11, No. 10, pp. 2694-2701.	
C167	Braun, Paul V. and Samuel I. Stupp. 1999. "CdS Mineralization of Hexagonal, Lamellar, and Cubic Lyotropic Liquid Crystals." <i>Materials Research Bulletin</i> . Vol. 34, No. 3, pp. 463-469.	
C168	Butler, C. E., I. V. Yannas, C. C. Compton, C. A. Cornein, and D. P. Orgill. 1999. "Comparison of Cultured and Uncultured Keratinocytes Seeded into a Collagen-GAG Matrix for Skin Replacements." <i>British Journal of Plastic Surgery</i> . Vol. 52, pp. 127-132.	
C169	Chai, C. S. and B. Ben-Nissan. 1999. "Bioactive Nanocrystalline Sol-Gel Hydroxyapatite Coatings." <i>Journal of Materials Science: Materials in Medicine</i> . Vol. 10, pp. 465-469.	
C170	Clark, Thomas D., Keiji Kobayashi, and M. Reza Ghadiri. 1999. "Covalent Capture and Stabilization of Cylindrical β -Sheet Peptide Assemblies." <i>Chem. Eur. J.</i> Vol. 5, No. 2, pp. 782-792.	
C171	Cornish, J., K. E. Callon, C. Q.-X. Lin, C. L. Xiao, T. B. Mulvey, G. J. S. Cooper, and I. R. Reid. 1999. "Trifluoroacetate, a Contaminant in Purified Proteins, Inhibits Proliferation of Osteoblasts and Chondrocytes." <i>Am. J. Physiol. Endocrinol. Metab.</i> Vol. 277, pp. 779-783.	
C172	Emoto, Kazumasa, Yutaka Nagasaki, and Kazumasa Katsuka. 1999. "Coating of Surfaces with Stabilized Reactive Micelles from Poly(ethylene glycol)-Poly(DL-Lactic Acid) Block Copolymer." <i>Langmuir</i> . Vol. 15, No. 16, pp. 5212-5218.	
C173	Fields, Gregg B. 1999. "Induction of Protein-like Molecular Architecture by Self-Assembly Processes." <i>Bioorganic & Medicinal Chemistry</i> . Vol. 7, pp. 75-81.	
C174	Haynes, Andrew J., Wei-Qun Huang, Jamie Mallah, Dajun Yang, Marc E. Lippman, and Lu-Yuan Li. 1999. "Angiopoietin-1 and Its Receptor Tie-2 Participate in the Regulation of Capillary-like Tube Formation and Survival of Endothelial Cells." <i>Microvascular Research</i> . Vol. 58, pp. 224-237.	
C175	Hwang, Julia J., Kevin Jaeger, James Hancock, and Samuel I. Stupp. 1999. "Organospecific Growth on an Orthopedic Alloy Surface." <i>Journal of Biomedical Materials Research</i> . Vol. 47, pp. 504-515.	
C176	Ignjatović, Nenad, Simona Tomić, Momčilo Đakić, Miroslav Mijlović, Milenko Plavić, and Dragan Uskoković. 1999. "Synthesis and Properties of Hydroxyapatite/Poly-L-Lactic Acid Composite Biomaterials." <i>Biomaterials</i> . Vol. 20, pp. 809-816.	
C177	Lee, Kevin J. and Thomas M. Jessell. 1999. "The Specification of Dorsal Cell Fates in the Vertebrate Central Nervous System." <i>Annual Review of Neuroscience</i> . Vol. 22, pp. 261-294.	
C178	Lee, Kyujin C., Paul A. Carlson, Alex S. Goldstein, Paul Yager, and Michael H. Gelb. 1999.	

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/GPTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/645,304	
			Filing Date	August 21, 2003	
			First Named Inventor	Samuel I. STUPP et al.	
			Art Unit	1654	
			Examiner Name	Marcela M. Cordero Garcia	
Sheet	12	of	21	Attorney Docket Number	NANO 104 US2 (NU 22070)

		"Protection of a Decapeptide from Proteolytic Cleavage by Lipidation and Self-Assembly into High-Axial-Ratio Microstructures: A Kinetic and Structural Study." <i>Langmuir</i> . Vol. 15, No. 17, pp. 5500-5508.	
C179	Mao, Chuanbin, Hengde Li, Fuzhai Cai, Chualai Ma, and Qinglin Feng. 1999. "Oriented Growth of Phosphates on Polycrystalline Titanium in a Process Mimicking Biomineralization." <i>Journal of Crystal Growth</i> . Vol. 206, pp. 308-321.		
C180	Miyaji, Fumiaki, Hyun-Min Kim, Shinichi Honda, Tadashi Kokubo, and Takashi Nakamura. 1999. "Bone-like Apatite Coating on Organic Polymers: Novel Nucleation Process Using Sodium Silicate Solution." <i>Biomaterials</i> . Vol. 20, pp. 913-919.		
C181	Pakalns, Teika, Krag L. Haverstick, Gregg B. Fields, James B. McCarthy, Daniel L. Mooradian, and Matthew Tirrell. 1999. "Cellular Recognition of Synthetic Peptide Amphiphiles in Self-Assembled Monolayer Films." <i>Biomaterials</i> . Vol. 20, pp. 2265-2279.		
C182	Pittenger, Mark F., Alastair M. Mackay, Stephen C. Beck, Rama K. Jainwal, Robin Douglas, Joseph D. Mosca, Mark A. Moorman, Donald W. Simonetti, Stewart Craig, and Daniel R. Marshak. April 2, 1999. "Multilineage Potential of Adult Human Mesenchymal Stem Cells." <i>Science</i> . Vol. 284, pp. 143-147.		
C183	Reznania, Alireza, Robert Johnson, Anthony R. Lefkow, and Kevin E. Henly. 1999. "Bioactivation of Metal Oxide Surfaces. I. Surface Characterization and Cell Response." <i>Langmuir</i> . Vol. 15, No. 20, pp. 6931-6939.		
C184	Rowley, Jon A., Gerard Madhambayan, and David J. Mooney. 1999. "Alginic Hydrogels as Synthetic Extracellular Matrix Materials." <i>Biomaterials</i> . Vol. 20, pp. 45-53.		
C185	Schense, Jason C. and Jeffrey A. Hubbell. 1999. "Cross-Linking Exogenous Bifunctional Peptides into Fibrin Gels with Factor XIIIa." <i>Bioconjugate Chem.</i> Vol. 10, No. 1, pp. 75-81.		
C186	Varma, H. K., Y. Yokogawa, F. F. Espinosa, Y. Kawamoto, K. Nishizawa, F. Nagata, and T. Kameyama. 1999. "In-Vitro Calcium Phosphate Growth over Functionalized Cotton Fibers." <i>Journal of Materials Science: Materials in Medicine</i> . Vol. 10, pp. 395-400.		
C187	Vernon, Robert B. and E. Helene Sage. 1999. "A Novel, Quantitative Model for Study of Endothelial Cell Migration and Sprout Formation Within Three-Dimensional Collagen Matrices." <i>Microvascular Research</i> . Vol. 57, pp. 188-193.		
C188	Wei, M., A. J. Ruys, M. V. Swain, S. H. Kim, B. K. Milthorpe, and C. C. Sorrell. 1999. "Interfacial Bond Strength of Electrophoretically Deposited Hydroxyapatite Coatings on Metals." <i>Journal of Materials Science: Materials in Medicine</i> . Vol. 10, pp. 401-409.		
C189	Yu, Ying-Ching, Vikram Rontga, Vladimir A. Duragan, Kevin H. Mayo, Matthew Tirrell, and Gregg B. Fields. 1999. "Structure and Dynamics of Peptide-Amphiphiles Incorporating Triple-Helical Proteinlike Molecular Architecture." <i>Biochemistry</i> . Vol. 38, No. 5, pp. 1659-1668.		
C190	Hsu, N. Laila, Keith J. Cross, and Eric C. Reynolds. February 4, 2000. "Molecular Modelling of a Multiphosphorylated Sequence Motif Bound to Hydroxyapatite Surfaces." <i>Journal of Molecular Modeling</i> . Vol. 6, pp. 35-47.		
C191	Martinez, J. S., G. P. Zhang, P. D. Holt, H. -T. Jung, C. J. Carmo, M. G. Haygood, and Alison Butler. February 18, 2000. "Self-Assembling Amphiphilic Siderophores from Marine Bacteria." <i>Science</i> . Vol. 287, No. 5456, pp. 1245-1247.		
C192	Verrecchio, Angela, Markus W. Germann, Barbara P. Schuck, Brian Kung, Thomas Twardowski, and James D. San Antonio. March 17, 2000. "Design of Peptides with High Affinities for Heparin and Endothelial Cell Proteoglycans." <i>The Journal of Biological Chemistry</i> . Vol. 275, No. 11, pp. 7701-7707.		
C193	Cao, H., J. Y. Xu, E. W. Seelig, and R. P. H. Chang. May 22, 2000. "Microlaser Made of Disordered Media." <i>Applied Physics Letters</i> . Vol. 76, No. 21, pp. 2997-2999.		
C194	Marler, Jennifer J., Amrita Gulia, Jonathan Rowley, Rahul Koka, David Mooney, Joseph Upton, and Joseph Vacanti. May 2000. "Soft-Tissue Augmentation with Injectable Alginate and Syngeneic Fibroblasts." <i>Plastic and Reconstructive Surgery</i> . Vol. 105, No. 6, pp. 2049-2058.		
C195	Holmes, Todd C., Sonsoles de Lacalle, Xing Su, Guosong Liu, Alexander Rich, and Shuguang Zhang.		

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/GPTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/645,304
		Filing Date	August 21, 2003
		First Named Inventor	Samuel I. STUPP et al.
		Art Unit	1654
		Examiner Name	Marcela M. Cordero Garcia
Sheet	13	of	21
		Attorney Docket Number	NANO 104 US2 (NU 22070)

	June 6, 2000. "Extensive Neurite Outgrowth and Active Synapse Formation on Self-Assembling Peptide Scaffolds." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 97, No. 12, pp. 6728-6733.	
C196	Whaley, Sandra R., D. S. English, Evelyn L. Hu, Paul F. Barbara, and Angela M. Belcher. June 8, 2000. "Selection of Peptides with Semiconductor Binding Specificity for Directed Nanocrystal Assembly." <i>Nature</i> . Vol. 405, pp. 665-668.	
C197	Sun, Xiu-xia and Chi-chen Wang. July 28, 2000. "The N-Terminal Sequence (Residues 1-65) Is Essential for Dimerization, Activities, and Peptide Binding of <i>Escherichia coli</i> DsbC." <i>The Journal of Biological Chemistry</i> . Vol. 275, No. 30, pp. 22743-22749.	
C198	Hsu, Wei-Cherng, Mark H. Spilker, Ioannis V. Yannas, and Peter A. D. Rubin. August 2000. "Inhibition of Conjunctival Scarring and Contraction by a Porous Collagen-Glycosaminoglycan Implant." <i>Investigative Ophthalmology & Visual Science</i> . Vol. 41, No. 9, pp. 2404-2411.	
C199	Schlessinger, Joseph, Alexander N. Plotnikov, Omar A. Ibrahim, Anna V. Eliseenkova, Brian K. Yeh, Avner Yayon, Robert J. Linhardt, and Moosa Mohammadi. September 2000. "Crystal Structure of a Ternary FGF-FGFR-Heparin Complex Reveals a Dual Role for Heparin in FGFR Binding and Dimerization." <i>Molecular Cell</i> . Vol. 6, pp. 743-750.	
C200	Sun, Y., J. B. Ketterer, and G. K. L. Wong. October 9, 2000. "Extrinsic Gain and Stimulated Ultraviolet Emission in Nanocrystalline Zinc-Oxide Powder." <i>Applied Physics Letters</i> . Vol. 77, No. 15, pp. 2322-2324.	
C201	Schuldiner, Mirva, Ofra Yanuka, Joseph Iiskovitz-Eldor, Douglas A. Melton, and Nissim Benvenisty. October 10, 2000. "Effects of Eight Growth Factors on the Differentiation of Cells Derived from Human Embryonic Stem Cells." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 97, No. 21, pp. 11307-11312.	
C202	Altman, Michael, Peter Lee, Alexander Rich, and Shuguang Zhang. 2000. "Conformational Behavior of Ionic Self-Complementary Peptides." <i>Protein Science</i> . Vol. 9, pp. 1095-1105.	
C203	Archer, Eric A., Noah T. Goldberg, Vincent Lynch, and Michael J. Krische. 2000. "Nanostructured Polymer Duplexes via the Covalent Casting of 1-Dimensional H-Bonding Motifs: A New Strategy for the Self-Assembly of Macromolecular Precursors." <i>Journal of the American Chemical Society</i> . Vol. 122, No. 20, pp. 5006-5007.	
C204	Ariya, Katsuhiko, Jun-ichi Kikuchi, Masanobu Naito, Emiko Koyama, and Norihiro Yamada. 2000. "Modulated Supramolecular Assemblies Composed of Tripeptide Derivatives: Formation of Micrometer-Scale Rods, Nanometer-Size Needles, and Regular Patterns with Molecular-Level Flatness from the Same Compound." <i>Langmuir</i> . Vol. 16, No. 11, pp. 4929-4939.	
C205	Bemis, E., W. Teub, A. Veis, and S. Weiner. 2000. "A Transmission Electron Microscope Study Using Vitrified Ice Sections of Predentin: Structural Changes in the Dentin Collagenous Matrix Prior to Mineralization." <i>Journal of Structural Biology</i> . Vol. 132, pp. 212-225.	
C206	Bigi, Adriano, Elisa Bonanni, Silvia Panzavolta, and Norberto Roveri. 2000. "Biomimetic Growth of Hydroxyapatite on Gelatin Films Doped with Sodium Polyacrylate." <i>Biomacromolecules</i> . Vol. 1, No. 4, pp. 752-756.	
C207	Bourel, Line, Olivier Carion, Hélène Gras-Masse, and Oleg Melnyk. 2000. "The Deprotection of Lys(Mt) Revisited." <i>Journal of Peptide Science</i> . Vol. 6, pp. 264-270.	
C208	Caplan, Michael R., Peter N. Moore, Shuguang Zhang, Roger D. Kamm, and Douglas A. Lauffenburger. 2000. "Self-Assembly of a β -Sheet Protein Governed by Relief of Electrostatic Repulsion Relative to van der Waals Attraction." <i>Biomacromolecules</i> . Vol. 1, No. 4, pp. 627-631.	
C209	Cardello, F., M. Grego Calama, B. H. M. Snellink-Ruël, J.-L. Weidmann, A. Bielejewska, R. Folkens, N. M. M. Nibbering, P. Timmerman, and D. N. Reinhoudt. 2000. "Covalent Capture of Dynamic Hydrogen-Bonded Assemblies." <i>Chem. Commun.</i> pp. 367-368.	
C210	Chamberlain, L. J., I. V. Yannas, H.-P. Hsu, G. R. Strachartz, and M. Spector. 2000. "Near-Terminus Axonal Structure and Function Following Rat Sciatic Nerve Regeneration Through a Collagen-GAG Matrix in a Ten-Millimeter Gap." <i>Journal of Neuroscience Research</i> . Vol. 60, pp. 666-677.	
C211	David, Sunil A., Satish K. Awasthi, and P. Balaram. 2000. "The Role of Polar and Facial Amphipathic	

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/GPTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/645,304
		Filing Date	August 21, 2003
		First Named Inventor	Samuel I. STUPP et al.
		Art Unit	1654
		Examiner Name	Marcela M. Cordero Garcia
Sheet	14	of	21
		Attorney Docket Number	NANO 104 US2 (NU 22070)

	Character in Determining Lipopolysaccharide-Binding Properties in Synthetic Cationic Peptides." <i>Journal of Endotoxin Research</i> . Vol. 6, No. 3, pp. 249-256.	
C212	Dori, Yoav; Havazelet Bianco-Peled, Susi K. Satija, Gregg B. Fields, James B. McCarthy, and Matthew Tirrell. 2000. "Ligand Accessibility as Means to Control Cell Response to Bioactive Bilayer Membranes." <i>Journal of Biomedical Materials Research</i> . Vol. 50, pp. 75-81.	
C213	Hisseda, Yoshio, Eiji Ohshima, and Makiko Arimura. 2000. "Aggregation Behavior of Synthetic Peptide Lipids with Arginine in Aqueous Solution and Construction of a Vitamin B ₁₂ Artificial Enzyme." <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> . Vol. 169, pp. 143-153.	
C214	Kogiso, Masaki, Yuji Okada, Takeshi Hanada, Kiyoshi Yase, and Toshimi Shimizu. 2000. "Self-Assembled Peptide Fibers from Valylvaline Bola-Amphiphiles by a Parallel β -Sheet Network." <i>Biochimica et Biophysica Acta</i> . Vol. 1475, pp. 346-352.	
C215	Langer, Robert. 2000. "Biomaterials in Drug Delivery and Tissue Engineering: One Laboratory's Experience." <i>Accounts of Chemical Research</i> . Vol. 33, No. 2, pp. 94-101.	
C216	Liu, X. D., M. Skold, T. Umino, Y. K. Zhu, D. J. Romberger, J. R. Spuzem, and S. I. Rennard. 2000. "Endothelial Cell-Mediated Type I Collagen Gel Contraction Is Regulated by Hemin." <i>J. Lab. Clin. Med.</i> Vol. 136, No. 2, pp. 100-109.	
C217	Lu, Lichun, Susan J. Peter, Michelle D. Lyman, Hui-Lin Lai, Susan M. Leite, Janet A. Tamada, Shiro Uyama, Joseph P. Vacanti, Robert Langer, and Antonios G. Mikos. 2000. "In Vitro and In Vivo Degradation of Porous Poly(DL-Lactic-co-Glycolic Acid) Foams." <i>Biomaterials</i> . Vol. 21, pp. 1837-1845.	
C218	Matsuura, T., R. Hosokawa, K. Okamoto, T. Kimoto, and Y. Akagawa. 2000. "Diverse Mechanisms of Osteoblast Spreading on Hydroxyapatite and Titanium." <i>Biomaterials</i> . Vol. 21, pp. 1121-1127.	
C219	Ponticciello, Michael S., Robert M. Schinagl, Sudha Kadiyala, and Frank P. Barry. 2000. "Gelatin-Based Resorbable Sponge as a Carrier Matrix for Human Mesenchymal Stem Cells in Cartilage Regeneration Therapy." <i>Journal of Biomedical Materials Research</i> . Vol. 52, pp. 246-255.	
C220	Powell, Sharon K., Jayashree Rao, Eva Roque, Motoyoshi Nomizu, Yuichiro Kuratomi, Yoshihiko Yamada, and Hynda K. Kleinman. 2000. "Neural Cell Response to Multiple Novel Sites on Laminin-1." <i>Journal of Neuroscience Research</i> . Vol. 61, pp. 302-312.	
C221	Sakiyama-Elbert, Shelly E. and Jeffrey A. Hubbell. 2000. "Controlled Release of Nerve Growth Factor from a Heparin-Containing Fibrin-Based Cell Ingrowth Matrix." <i>Journal of Controlled Release</i> . Vol. 69, pp. 149-158.	
C222	Sakiyama-Elbert, Shelly E. and Jeffrey A. Hubbell. 2000. "Development of Fibrin Derivatives for Controlled Release of Heparin-Binding Growth Factors." <i>Journal of Controlled Release</i> . Vol. 65, pp. 389-402.	
C223	Thareja, R. K. and A. Mitra. 2000. "Random Laser Action in ZnO." <i>Appl. Phys. Lett.</i> Vol. 71, pp. 181-184.	
C224	Tunggal, Patrick, Neil Smyth, Mats Paulsson, and Mark-Christoph Ott. 2000. "Laminins: Structure and Genetic Regulation." <i>Microscopy Research and Technique</i> . Vol. 51, pp. 214-227.	
C225	do Serró, Ana Paula Valagão Amado, Anabela Catarina Fernandes, and Benilde de Jesus Vieira Saranago. 2000. "Calcium Phosphate Deposition on Titanium Surfaces in the Presence of Fibronectin." <i>Journal of Biomedical Materials Research</i> . Vol. 49, pp. 345-352.	
C226	Yamada, Norihiro and Katsuhiko Ariga. 2000. "Formation of β -Sheet Assemblage with a View to Developing an Amyloid Model." <i>Synlett</i> . Vol. 5, pp. 575-586.	
C227	Yang, Lin and Paschalis Alexandridis. 2000. "Physicochemical Aspects of Drug Delivery and Release from Polymer-Based Colloids." <i>Current Opinion in Colloid & Interface Science</i> . Vol. 5, pp. 132-143.	
C228	Yu, Huanran, Hiroshi Narusawa, Kisse Itoh, Akikazu Ochi, Narutoshi Yoshino, Kazuo Ohbu, Toshiaki Shirakawa, Kazuhiro Fukuda, Masatoshi Fujii, Tadashi Kato, and Tsutomu Seimiya. 2000. "Hydrophilicity of Polar and Apolar Domains of Amphiphiles." <i>Journal of Colloid and Interface Science</i> . Vol. 229, pp. 375-390.	
C229	Zhu, G. M. F. Mehler, P. C. Mabie, and J. A. Kessler. 2000. "Developmental Changes in Neural Progenitor Cell Lineage Commitment Do Not Depend on Epidermal Growth Factor Receptor	

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/GPTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known Application Number 10/645,304 Filing Date August 21, 2003 First Named Inventor Samuel I. STUPP et al. Art Unit 1654 Examiner Name Marcela M. Cordero Garcia Attorney Docket Number NANO 104 US2 (NU 22070)	
Sheet	15	of	21

	Signaling." <i>Journal of Neuroscience Research</i> . Vol. 59, pp. 312-320.	
C230	Orlic, Donald, Jan Kajstus, Stefano Chimenti, Igor Jakoncok, Stacie M. Anderson, Baozhong Li, James Pickett, Ronald McKay, Bernardo Nadal-Ginard, David M. Bodine, Annarosa Leni, and Piero Anversa. April 5, 2001. "Bone Marrow Cells Regenerate Infarcted Myocardium." <i>Nature</i> . Vol. 410, pp. 701-705.	
C231	Vallbø, Bruno, Daniel Vittet, and Jean-Jacques Feige. April 2001. "In Vitro Models of Vasculogenesis and Angiogenesis." <i>Laboratory Investigation</i> . Vol. 81, No. 4, pp. 439-452.	
C232	Davis, N. G., J. Teisen, C. Schob, and D. C. Dussand. May 2001. "Solid-State Foaming of Titanium by Superplastic Expansion of Argon-Filled Pores." <i>J. Mater. Res.</i> Vol. 16, No. 5, pp. 1508-1519.	
C233	Rabchevsky, Alexander G. and George M. Smith. May 2001. "Therapeutic Interventions Following Mammalian Spinal Cord Injury." <i>Arch. Neurol.</i> Vol. 58, pp. 721-726.	
C234	Huang, Michael H., Samuel Mao, Henning Feick, Haoquan Yan, Yiyang Wu, Hannes Kind, Eicke Weber, Richard Russo, and Peidong Yang. June 8, 2001. "Room-Temperature Ultraviolet Nanowire Nanolasers." <i>Science</i> . Vol. 292, pp. 1897-1899.	
C235	Lee, Kuen Yong and David J. Mooney. July 2001. "Hydrogels for Tissue Engineering." <i>Chemical Reviews</i> . Vol. 101, No. 7, pp. 1869-1879.	
C236	Aggeli, A., I. A. Nyrkova, M. Bell, R. Harding, L. Carrick, T. C. B. McLeish, A. N. Semenov, and N. Boden. October 9, 2001. "Hierarchical Self-Assembly of Chiral Rod-Like Molecules as a Model for Peptide β -Sheet Tapes, Ribbons, Fibrils, and Fibers." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 98, No. 21, pp. 11857-11862.	
C237	Richardson, Thomas P., Martin C. Peters, Alessandra B. Ennett, and David J. Mooney. November 2001. "Polymeric System for Dual Growth Factor Delivery." <i>Nature Biotechnology</i> . Vol. 19, pp. 1029-1034.	
C238	Mathew, Mathai and Shozo Takagi. November-December 2001. "Structures of Biological Minerals in Dental Research." <i>Journal of Research of the National Institute of Standards and Technology</i> . Vol. 106, No. 6, pp. 1035-1044.	
C239	Woo, Byung Ho, Betsy F. Fink, Richard Page, Jay A. Schrier, Yeong Woo Jo, Ge Jiang, Michelle DeLuca, Henry C. Vasconez, and Patrick P. DeLuca. December 2001. "Enhancement of Bone Growth by Sustained Delivery of Recombinant Human Bone Morphogenetic Protein-2 in a Polymeric Matrix." <i>Pharmaceutical Research</i> . Vol. 18, No. 12, pp. 1747-1753.	
C240	Barrere, F., P. Layrolle, C. A. Van Blitterswijk, and K. de Groot. 2001. "Biomimetic Coatings on Titanium: A Crystal Growth Study of Octacalcium Phosphate." <i>Journal of Materials Science: Materials in Medicine</i> . Vol. 12, pp. 529-534.	
C241	Bianco-Peled, Havazelet, Yoav Dori, James Schneider, Li-Pin Sung, Sushil Satija, and Matthew Tirrell. 2001. "Structural Study of Langmuir Monolayers Containing Lipidated Poly(ethylene glycol) and Peptides." <i>Langmuir</i> . Vol. 17, No. 22, pp. 6931-6937.	
C242	Cavalli, M., G. Gnappi, A. Montenero, D. Bersani, P. P. Lomaci, S. Kacimaci, G. Matogno, and M. Fini. 2001. "Hydroxy- and Fluorapatite Films on Ti Alloy Substrates: Sol-gel Preparation and Characterization." <i>Journal of Materials Science</i> . Vol. 36, pp. 3253-3260.	
C243	Chang, John C., Gregory J. Brewer, and Bruce C. Wheeler. 2001. "Modulation of Neural Network Activity by Patterning." <i>Biosensors & Bioelectronics</i> . Vol. 16, pp. 527-533.	
C244	Chang, Sophia C. N., Jon A. Rowley, Geoffrey Tobias, Nicholas G. Genes, Amit K. Roy, David J. Mooney, Charles A. Vacanti, and Lawrence J. Bonassar. 2001. "Injection Molding of Chondrocyte/Alginate Constructs in the Shape of Facial Implants." <i>Journal of Biomedical Materials Research</i> . Vol. 55, pp. 503-511.	
C245	Doi, Tomokiyo, Takatoshi Kinoshita, Hiroki Kamiya, Shintaro Washizu, Yoshiharu Tsujita, and Hiroaki Yoshimizu. 2001. "Aggregation of Polypeptide-Based Amphiphiles in Water." <i>Polymer Journal</i> . Vol. 33, No. 2, pp. 160-164.	
C246	Gore, Tushar, Yoav Dori, Yeshayahu Talmon, Matthew Tirrell, and Havazelet Bianco-Peled. 2001. "Self-Assembly of Model Collagen Peptide Amphiphiles." <i>Langmuir</i> . Vol. 17, No. 17, pp. 5352-5360.	
C247	Hoes, Ronald H. 2001. "Protein Design and Phage Display." <i>Chemical Reviews</i> . Vol. 101, No. 10,	

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/GPTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/645,304
		Filing Date	August 21, 2003
		First Named Inventor	Samuel I. STUPP et al.
		Art Unit	1654
		Examiner Name	Marcela M. Cordero Garcia
Sheet	16	of	21
		Attorney Docket Number	NANO 104 US2 (NU 22070)

	pp. 3205-3218.	
C248	Hwang, Eric J. and Louis F. Reichardt. 2001. "Neurotrophins: Roles in Neuronal Development and Function." <i>Annual Review of Neuroscience</i> . Vol. 24, pp. 677-736.	
C249	Kam, L., W. Shain, J. N. Turner, and R. Bizios. 2001. "Axonal Outgrowth of Hippocampal Neurons on Micro-Scale Networks of Polylysine-Conjugated Laminin." <i>Biomaterials</i> . Vol. 22, pp. 1049-1054.	
C250	Kikuchi, Masatoshi, Soehiro Itoh, Shizuko Ichinose, Kenichi Shinomiya, and Junzo Tanaka. 2001. "Self-Organization Mechanism in a Bone-Like Hydroxyapatite/Collagen Nanocomposite Synthesized in Vitro and Its Biological Reaction in Vivo." <i>Biomaterials</i> . Vol. 22, pp. 1705-1711.	
C251	Liu, Yuelian, Pierre Layrolle, Joost de Bruijn, Clemens van Blitterswijk, and Kias de Groot. 2001. "Biomimetic Coprecipitation of Calcium Phosphate and Bovine Serum Albumin on Titanium Alloy." <i>Journal of Biomedical Materials Research</i> . Vol. 57, pp. 327-335.	
C252	Look, D. C. 2001. "Recent Advances in ZnO Materials and Devices." <i>Materials Science and Engineering</i> . Vol. B80, pp. 383-387.	
C253	Matsuai, Hiroshi, and Gary E. Doublerly, Jr. 2001. "Organization of Peptide Nanotubes into Macroscopic Bundles." <i>Langmuir</i> . Vol. 17, No. 25, pp. 7918-7922.	
C254	Neet, K. E. and R. B. Campenot. 2001. "Receptor Binding, Internalization, and Retrograde Transport of Neurotrophic Factors." <i>CMLS, Cell Mol Life Sci</i> . Vol. 58, pp. 1021-1035.	
C255	Otsuka, Hidenori, Yukio Nagasaki, and Kazunori Katsuka. 2001. "Self-Assembly of Poly(ethylene glycol)-based Block Copolymers for Biomedical Applications." <i>Current Opinion in Colloid & Interface Science</i> . Vol. 6, pp. 3-10.	
C256	Shimizu, Toshimi, Rika Iwaura, Mitsutoshi Masuda, Takeshi Hanada, and Kiyoshi Yase. 2001. "Internucleobase-Interaction-Directed Self-Assembly of Nanofibers from Homo- and Heteroditopic 1,3-Nucleobase Bismorpholines." <i>Journal of the American Chemical Society</i> . Vol. 123, No. 25, pp. 5947-5955, SI-S16.	
C257	Sorstenes, George. 2001. <i>Infrared and Raman Characteristic Group Frequencies: Tables and Charts</i> . Third Edition. Chichester, England: John Wiley & Sons Ltd.	
C258	Spanos, Nikos and Petros O. Koutsoukos. 2001. "Model Studies of the Effect of Orthophospho-L-Serine on Biological Mineralization." <i>Langmuir</i> . Vol. 17, No. 3, pp. 866-872.	
C259	Takadama, Hiroaki, Hyun-Min Kim, Tadashi Kokubo, and Takashi Nakamura. 2001. "TEM-EDX Study of Mechanism of Bone-like Apatite Formation on Bioactive Titanium Metal in Simulated Body Fluid." <i>Journal of Biomedical Materials Research</i> . Vol. 57, pp. 441-448.	
C260	Taniguchi, Masuo, Yasuo Suzuki, Eiko Yamamoto, Atsushi Noguchi, and Yutaka Mizushima. 2001. "Sustained Release of Basic Fibroblast Growth Factor and Angiogenesis in a Novel Covalently Crosslinked Gel of Heparin and Alginate." <i>Journal of Biomedical Materials Research</i> . Vol. 56, pp. 216-221.	
C261	Yeung, C. K., L. Lauer, A. Offenbuecher, and W. Knoll. 2001. "Modulation of the Growth and Guidance of Rat Brain Stem Neurons Using Patterned Extracellular Matrix Proteins." <i>Neuroscience Letters</i> . Vol. 301, pp. 147-150.	
C262	Zabarov, Eugene R., Martin U. Pralle, Eli D. Sone, and Samuel I. Stupp. 2001. "Self-Assembly of Dendron Rodcoiled Molecules into Nanoribbons." <i>Journal of the American Chemical Society</i> . Vol. 123, No. 17, pp. 4105-4106.	
C263	Hirschi, Karen K., Lihua Lai, Narasimhaswamy S. Belaguli, David A. Dean, Robert J. Schwartz, and Warren E. Zimmer. February 22, 2002. "Transforming Growth Factor- β Induction of Smooth Muscle Cell Phenotype Requires Transcriptional and Post-transcriptional Control of Serum Response Factor." <i>The Journal of Biological Chemistry</i> . Vol. 277, No. 8, pp. 6287-6295.	
C264	Xu, Weiming, Lizi Liu, and Ian G. Charles. February 2002. "Microencapsulated iNOS-expressing Cells Cause Tumor Suppression in Mice." <i>The FASEB Journal</i> . Vol. 16, pp. 213-215.	
C265	Zabarov, Eugene R., Martin U. Pralle, Eli D. Sone, and Samuel I. Stupp. February 2002. "Scaffolding of Polymers by Supramolecular Nanoribbons." <i>Advanced Materials</i> . Vol. 14, No. 3, pp. 198-203.	
C266	Teng, Yang D., Erin B. Lavik, Xianfu Qiu, Kook I. Park, Jitka Ourednik, David Zurawski, Robert Langer, and Even Y. Snyder. March 5, 2002. "Functional Recovery Following Traumatic Spinal Cord	

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/GPTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/645,304
		Filing Date	August 21, 2003
		First Named Inventor	Samuel I. STUPP et al.
		Art Unit	1654
		Examiner Name	Marcela M. Cordero Garcia
Sheet	17	of	21
		Attorney Docket Number	NANO 104 US2 (NU 22070)

		Injury Mediated by a Unique Polymer Scaffold Seeded with Neural Stem Cells." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 99, No. 5, pp. 3024-3029.
C267	Bradbury, Elizabeth J., Lawrence D. F. Moon, Reena J. Popat, Von R. King, Gavin S. Bennett, Preena N. Patel, James W. Fawcett, and Stephen B. McMahon. April 11, 2002. "Chondroitinase ABC Promotes Functional Recovery After Spinal Cord Injury." <i>Nature</i> . Vol. 416, pp. 636-640.	
C268	Vautour, Sylvain, Steve Santoso, Haiyan Gong, Nicki Watson, and Shuguang Zheng. April 16, 2002. "Molecular Self-Assembly of Surfactant-like Peptides to Form Nanotubes and Nanovesicles." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 99, No. 8, pp. 5355-5360.	
C269	Nowak, Andrew P., Victor Breedveld, Lisa Pakutis, Bulent Ozbas, David J. Pine, Darrin Pochan, and Timothy J. Deming. May 23, 2002. "Rapidly Recovering Hydrogel Scaffolds from Self-Assembling Diblock Copolymer Amphiphiles." <i>Nature</i> . Vol. 417, pp. 424-428.	
C270	GrandPré, Tadzina, Shaoxi Li, and Stephen M. Strittmatter. May 30, 2002. "Nogo-66 Receptor Antagonist Peptide Promotes Axonal Regeneration." <i>Nature</i> . Vol. 417, pp. 547-551.	
C271	Storch, Alexander and Johannes Schwarz. May 2002. "Neural Stem Cells and Neurodegeneration." <i>Current Opinion in Investigational Drugs</i> . Vol. 3, No. 5, pp. 774-781.	
C272	Lendlein, Andreas and Robert Langer. May 31, 2002. "Biodegradable, Elastic Shape-Memory Polymers for Potential Biomedical Applications." <i>Science</i> . Vol. 296, pp. 1673-1676.	
C273	Qiu, Jin, Dongming Cai, Haining Dai, Marietta McAttee, Paul N. Hoffman, Barbara S. Bregman, and Marie T. Filbin. June 13, 2002. "Spinal Axon Regeneration Induced by Elevation of Cyclic AMP." <i>Neuron</i> . Vol. 34, pp. 895-903.	
C274	Catledge, Shane A., Marc D. Fries, Yogesh K. Vohra, William R. Lacerfield, Jack E. Lemons, Shanna Woodard, and Rameshkrishna Venugopalan. June-August 2002. "Nanostructured Ceramics for Biomedical Implants." <i>Journal of Nanoscience and Nanotechnology</i> . Vol. 2, No. 3/4, pp. 293-312.	
C275	Alsborg, Eben, Kenneth W. Anderson, Amru Albeinuti, Jon A. Rowley, and David J. Mooney. September 17, 2002. "Engineering Growing Tissues." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 99, No. 19, pp. 12025-12030.	
C276	Kay, Sarina, Anil Thapa, Karen M. Haberstroh, and Thomas J. Webster. October 2002. "Nanostructured Polymer/Nanophase Ceramic Composites Enhance Osteoblast and Chondrocyte Adhesion." <i>Tissue Engineering</i> . Vol. 8, No. 5, pp. 753-761.	
C277	Chang, Hua, Chester W. Brown, and Martin M. Matzuk. December 2002. "Genetic Analysis of the Mammary Transforming Growth Factor- β Superfamily." <i>Endocrine Reviews</i> . Vol. 23, No. 6, pp. 787-823.	
C278	Busqué, Félix, Stephanie A. Hopkins, and Joseph P. Konopelski. 2002. "Progress Toward a Peptidomimetic of Laminin-Derived Pentapeptide YIGSR: Synthesis of the Unique Tricyclic Core Structure." <i>J. Org. Chem.</i> Vol. 67, No. 17, pp. 6097-6103.	
C279	Czanple, Laurence, Anne-Marie Rehor, and David Hunkeler. 2002. "Improving Cell Encapsulation Through Size Control." <i>J. Biomater. Sci. Polymer Ed.</i> Vol. 13, No. 7, pp. 783-796.	
C280	Caplan, Michael R., Elson M. Schwarzbach, Shuguang Zheng, Roger D. Kamm, and Douglas A. Lauffenburger. 2002. "Control of Self-Assembling Oligopeptide Matrix Formation Through Systematic Variation of Amino Acid Sequence." <i>Biomaterials</i> . Vol. 23, pp. 219-227.	
C281	Chen, Zhi Jiang, Yvonne Ughrin, and Joel M. Levine. 2002. "Inhibition of Axon Growth by Oligodendrocyte Precursor Cells." <i>Molecular and Cellular Neuroscience</i> . Vol. 20, pp. 125-139.	
C282	Cornish, Toby, Darren W. Branch, Bruce C. Wheeler, and James T. Campanelli. 2002. "Microcontact Printing: A Versatile Technique for the Study of Synaptic Molecules." <i>Molecular and Cellular Neuroscience</i> . Vol. 20, pp. 140-153.	
C283	Costa, Silvia, Thierry Planchenault, Cecile Churrier-Bertrand, Yann Mouchel, Christiane Fages, Shoun Juliano, Thierry Lefrançois, Georgia Berlovaiz-Meimon, and Marianne Tardy. 2002. "Astroglial Permissivity for Neuritic Outgrowth in Neuro-Astrocyte Co-cultures Depends on Regulation of Laminin Bioavailability." <i>GLIA</i> . Vol. 37, pp. 105-113.	
C284	Gariépy, Jean, Sandrine Remy, Xuguang Zheng, James R. Bellinger, Elztonora Boleswica-Pedyczak,	

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/GPTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/645,304
		Filing Date	August 21, 2003
		First Named Inventor	Samuel I. STUPP et al.
		Art Unit	1654
		Examiner Name	Marcela M. Cordero Garcia
Sheet	18	of	21
		Attorney Docket Number	NANO 104 US2 (NU 22070)

	Michael Rauth, and Stuart K. Bisland. 2002. "A Simple Two-Step Approach for Introducing a Protected Diaminedithiol Chelator During Solid-Phase Assembly of Peptides." <i>Bioconjugate Chem.</i> Vol. 13, No. 3, pp. 679-684.	
C285	Glättli, Alice, Xavier Daura, Dieter Seebach, and Wilfred F. van Gunsteren. 2002. "Can One Derive the Conformational Preference of a β -Peptide from its CD Spectrum?" <i>Journal of the American Chemical Society.</i> Vol. 124, No. 44, pp. 12972-12978.	
C286	Gutwein, Luke G. and Thomas J. Webster. 2002. "Osteoblast and Chondrocyte Proliferation in the Presence of Alumina and Titania Nanoparticles." <i>Journal of Nanoparticle Research.</i> Vol. 4, pp. 231-238.	
C287	Huang, Ning-Ping, Gabor Csucs, Kazunori Emoto, Yukio Nagasaki, Kazunori Katoaka, Marcus Textor, and Nicholas D. Spencer. 2002. "Covalent Attachment of Novel Poly(ethylene glycol)-Poly(DL-lactic acid) Copolymeric Micelles to TiO ₂ Surfaces." <i>Langmuir.</i> Vol. 18, No. 1, pp. 252-258.	
C288	Isaac, Roy and Jean Chmielewski. 2002. "Approaching Exponential Growth with a Self-Replicating Peptide." <i>Journal of the American Chemical Society.</i> Vol. 124, No. 24, pp. 6808-6809.	
C289	Joshi, Mital and Michael G. Fehlings. 2002. "Development and Characterization of a Novel, Graded Model of Clip Compressive Spinal Cord Injury in the Mouse: Part I. Clip Design, Behavioral Outcomes, and Histopathology." <i>Journal of Neurotrauma.</i> Vol. 19, No. 2, pp. 175-190.	
C290	Joshi, Mital and Michael G. Fehlings. 2002. "Development and Characterization of a Novel, Graded Model of Clip Compressive Spinal Cord Injury in the Mouse: Part 2. Quantitative Neuroanatomical Assessment and Analysis of the Relationships Between Axonal Tracts, Residual Tissue, and Locomotor Recovery." <i>Journal of Neurotrauma.</i> Vol. 19, No. 2, pp. 191-203.	
C291	Kruger, Ryan G., Patrick Dostal, and Dewey G. McCallerty. 2002. "An Economical and Preparative Orthogonal Solid Phase Synthesis of Fluorescein and Rhodamine Derivatized Peptides: FRET Substrates for the <i>Staphylococcus aureus</i> Sortase SrtA Transpeptidase Reaction." <i>Chem. Commun.</i> Pp. 2092-2093.	
C292	Lauer, L., A. Vogt, C. K. Yeung, W. Knoll, and A. Offenhausser. 2002. "Electrophysiological Recordings of Patterned Rat Brain Stem Slice Neurons." <i>Biomaterials.</i> Vol. 23, pp. 3123-3130.	
C293	Lavik, Erin, Yang D. Teng, Evan Snyder, and Robert Langer. 2002. "Speeding Neural Stem Cells on Scaffolds of PGA, PLA, and Their Copolymers." <i>Methods in Molecular Biology: Neural Stem Cells: Methods and Protocols.</i> Vol. 198, pp. 89-97.	
C294	Marini, Davide M., Woanmuk Hwang, Douglas A. Lauffenburger, Shuguang Zhang, and Roger D. Kamm. 2002. "Left-Handed Helical Ribbon Intermediates in the Self-Assembly of a β -Sheet Peptide." <i>Nano Letters.</i> Vol. 2, No. 4, pp. 295-299.	
C295	Ohashi, Mio, Tatsuya Okuda, Akihiro Wada, Toshiya Hirasawa, Takuro Niidome, and Hanahiko Aoyagi. 2002. "In Vitro Gene Transfection Using Dendritic Poly(L-lysine)." <i>Bioconjugate Chem.</i> Vol. 13, No. 3, pp. 510-517.	
C296	Okuno, Hideyuki. 2002. "Stem Cell Biology of the Central Nervous System." <i>Journal of Neuroscience Research.</i> Vol. 69, pp. 698-707.	
C297	Purmar, Malin, Charlotta Skogh, Anders Björklund, and Kenneth Campbell. 2002. "Regional Specification of Neurosphere Cultures Derived from Subregions of the Embryonic Telencephalon." <i>Molecular and Cellular Neuroscience.</i> Vol. 21, pp. 645-656.	
C298	Porter, A. E., L. W. Hobbs, V. Benezra Rosen, and M. Spector. 2002. "The Ultrastructure of the Plasma-Spexed Hydroxyapatite-bone Interface Predisposing to Bone Bonding." <i>Biomaterials.</i> Vol. 23, pp. 725-733.	
C299	Rowley, Jon A. and David J. Mooney. 2002. "Alginate Type and RGD Density Control Myoblast Phenotype." <i>Journal of Biomedical Materials Research.</i> Vol. 60, pp. 217-223.	
C300	Santoso, Steve S., Sylvain Vanthay, and Shuguang Zhang. 2002. "Structures, Function and Applications of Amphiphilic Peptides." <i>Current Opinion in Colloid & Interface Science.</i> Vol. 7, pp. 262-266.	
C301	Thibaud, Pierre, Lars Lauer, Wolfgang Knoll, and Andreas Offenhausser. 2002. "PDMS Device for Patterned Application of Microfluids to Neuronal Cells Arranged by Microcontact Printing."	

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/GPTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known Application Number 10/645,304 Filing Date August 21, 2003 First Named Inventor Samuel I. STUPP et al. Art Unit 1654 Examiner Name Marcela M. Cordero Garcia Attorney Docket Number NANO 104 US2 (NU 22070)	
Sheet	19	of	21

		Biosensors & Bioelectronics. Vol. 17, pp. 87-93.	
C302		Tryoen-Toth, Petra, Dominique Vautier, Youssef Haikel, Jean-Claude Voegel, Pierre Schaef, Johanna Chluba, and Joëlle Ogier. 2002. "Viability, Adhesion, and Bone Phenotype of Osteoblast-like Cells on Polyelectrolyte Multilayer Films." <i>Journal of Biomedical Materials Research</i> . Vol. 60, pp. 657-667.	
C303		Young, Wise. 2002. "Spinal Cord Contusion Models." <i>Progress in Brain Research</i> . Vol. 137, pp. 231-255.	
C304		Lafol, Mathias P., Franz E. Weber, Hugo G. Schmoekel, Jason C. Schense, Thomas Kohler, Ralph Müller, and Jeffrey A. Hubbell. May 2003. "Repair of Bone Defects Using Synthetic Mimetics of Collagenous Extracellular Matrices." <i>Nature Biotechnology</i> . Vol. 21, pp. 513-518.	
C305		Shaw, Derek and Molly S. Shoichet. May 2003. "Toward Spinal Cord Injury Repair Strategies: Peptide Surface Modification of Expanded Poly(Tetrafluoroethylene) Fibers for Guided Neurite Outgrowth in Vitro." <i>The Journal of Craniofacial Surgery</i> . Vol. 14, No. 3, pp. 308-316.	
C306		Cheng, Hongwei, Wei Jiang, Frank M. Phillips, Rex C. Haydon, Ying Peng, Lan Zhou, Hui H. Liu, Naili An, Benjamin Breyer, Pantila Vanichakarn, Jan Paul Szatkowski, Joe Yoon Park, and Tong-Chuan Hsue. August 2003. "Osteogenic Activity of the Fourteen Types of Human Bone Morphogenetic Proteins (BMPs)." <i>The Journal of Bone & Joint Surgery</i> . Vol. 85-A, No. 8, pp. 1544-1552, 141.	
C307		Pavlov, Georges, Stéphanie Finet, Karine Tatarenko, Evgeniya Korneeva, and Christine Ebel. 2003. "Conformation of Heparin Studied with Macromolecular Hydrodynamic Methods and X-ray Scattering." <i>Eur. Biophys. J.</i> Vol. 32, pp. 437-449.	
C308		Arazeh, Treene Livingston, Susan J. Peter, Michael P. Archambault, Christian van den Bos, Steve Gordon, Karl Kraus, Alan Smith, and Sudha Kadiyala. October 2003. "Allogeneic Mesenchymal Stem Cells Regenerate Bone in a Critical-Sized Canine Segmental Defect." <i>The Journal of Bone & Joint Surgery</i> . Vol. 85-A, No. 10, pp. 1927-1935.	
C309		Zhang, Shuguang. October 2003. "Fabrication of Novel Biomaterials Through Molecular Self-Assembly." <i>Nature Biotechnology</i> . Vol. 21, No. 10, pp. 1171-1178.	
C310		Aggeli, Amalia, Mark Bell, Lisa M. Carnick, Colin W. G. Fishwick, Richard Harding, Peter J. Mawer, Sheena E. Radford, Andrew E. Strong, and Neville Boden. 2003. "pH as a Trigger of Peptide β -Sheet Self-Assembly and Reversible Switching Between Nematic and Isotropic Phases." <i>Journal of the American Chemical Society</i> . Vol. 125, No. 32, pp. 9619-9628.	
C311		Alsinia, Jordi and Fernando Albericio. 2003. "Solid-Phase Synthesis of C-Terminal Modified Peptides." <i>Biopolymers (Peptide Science)</i> . Vol. 71, pp. 454-477.	
C312		Anthony, Shawn G. 2003. "Injectable Biomaterials for Bone Tissue Engineering."	
C313		Boontcheekul, Tanyarat and David J. Mooney. 2003. "Protein-Based Signaling Systems in Tissue Engineering." <i>Current Opinion in Biotechnology</i> . Vol. 14, pp. 559-565.	
C314		Fauza, Dario O. 2003. "Tissue Engineering: Current State of Clinical Application." <i>Current Opinion in Pediatrics</i> . Vol. 15, pp. 267-271.	
C315		Ganesh, S. and R. Jayakumar. 2003. "Structural Transitions Involved in a Novel Amyloid-Like β -Sheet Assembly of Tripeptide Derivatives." <i>Biopolymers</i> . Vol. 70, pp. 336-345.	
C316		Ganesh, S. S. Prakash, and R. Jayakumar. 2003. "Spectroscopic Investigation on Gel-Forming β -Sheet Assembly of Peptide Derivatives." <i>Biopolymers</i> . Vol. 70, pp. 346-354.	
C317		Gergely, C. S., P. Bar Yosef, R. Govrin-Lippman, F. Cuisinier, and H. Fardis-Milhofer. 2003. "The Deposition of Calcium Phosphates Within Polyelectrolyte Multilayer Films." <i>Key Engineering Materials</i> . Vols. 240-242 (Bioceramics), pp. 287-290.	
C318		Gooden-Wood, Nichole L., Jay D. Keasling, and Susan J. Muller. 2003. "Self-Assembly of a Designed Protein Polymer into β -Sheet Fibrils and Responsive Gels." <i>Macromolecules</i> . Vol. 36, No. 8, pp. 2932-2938.	
C319		Ishihara, Masayuki, Kiyohisa Ohama, Toshiaki Ishizuka, Masanori Fujita, Masato Sato, Kazunori Masuko, Yoshio Saito, Hirofumi Yura, Takemi Matsui, Hiromi Hattori, Makoto Kikuchi, and Akira Kanis. 2003. "Controlled Release of Fibroblast Growth Factors and Heparin from Photocrosslinked Chitosan Hydrogels and Subsequent Effect on <i>In Vivo</i> Vascularization." <i>Journal of Biomedical Materials Research</i> . Vol. 64A, pp. 551-559.	

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/GPTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/645,304
		Filing Date	August 21, 2003
		First Named Inventor	Samuel I. STUPP et al.
		Art Unit	1654
		Examiner Name	Marcela M. Cordero Garcia
Sheet	20	of	21
		Attorney Docket Number	NANO 104 US2 (NU 22070)

C320	Malkar, Navdeep B., Janelle L. Lauer-Fields, Darius Junka, and Gregg B. Fields. 2003. "Characterization of Peptide-Amphiphiles Possessing Cellular Activation Sequences." <i>Biomacromolecules</i> . Vol. 4, No. 3, pp. 518-528.
C321	Niece, Krista L., Jeffrey D. Hartgerink, Jack J. M. Donners, and Samuel I. Stupp. 2003. "Self-Assembly Combining Two Bioactive Peptide-Amphiphile Molecules into Nanofibers by Electrostatic Attraction." <i>Journal of the American Chemical Society</i> . Vol. 125, No. 24, pp. 7146-7147.
C322	Steward, Oswald, Binhui Zheng, and Marc Tessier-Lavigne. 2003. "False Reconnections: Distinguishing Regenerated from Spared Axons in the Injured Central Nervous System." <i>The Journal of Comparative Neurology</i> . Vol. 459, pp. 1-8.
C323	Wu, Sufan, Yoshihisa Suzuki, Yoko Ejiri, Toru Noda, Hongliang Bai, Masaaki Kitada, Kazuya Katsuka, Masayoshi Ohta, Hiroto Chou, and Chizuko Ide. 2003. "Bone Marrow Stromal Cells Enhance Differentiation of Cocultured Neurosphere Cells and Promote Regeneration of Injured Spinal Cord." <i>Journal of Neuroscience Research</i> . Vol. 72, pp. 343-351.
C324	Yamada, Norihiro, Tsukasa Komatsu, Hirotsugu Yoshinaga, Kayo Yoshizawa, Susumu Edo, and Masashi Kunitake. 2003. "Self-Supporting Elastic Film without Covalent Linkages as a Hierarchically Integrated B-Sheet Assembly." <i>Angew. Chem. Int. Ed.</i> Vol. 42, pp. 5496-5499.
C325	Zhang, Yan, Hongwei Gu, Zhimou Yang, and Bing Xu. 2003. "Supramolecular Hydrogels Respond to Ligand-Receptor Interaction." <i>Journal of the American Chemical Society</i> . Vol. 125, No. 45, pp. 13680-13681.
C326	Hirano, Yoshiaki and David J. Mooney. January 5, 2004. "Peptide and Protein Presenting Materials for Tissue Engineering." <i>Advanced Materials</i> . Vol. 16, No. 1, pp. 17-25.
C327	Silva, Gabriel A., Catherine Czeisler, Krista L. Niece, Eli Benish, Daniel A. Harrington, John A. Kessler, and Samuel I. Stupp. February 27, 2004. "Selective Differentiation of Neural Progenitor Cells by High-Epitope Density Nanofibers." <i>Science</i> . Vol. 303, pp. 1352-1355.
C328	Faulkner, Jill R., Julia E. Hermann, Michael J. Woo, Keith E. Tansey, Ngan B. Doan, and Michael V. Sofroniew. March 3, 2004. "Reactive Astrocytes Protect Tissue and Preserve Function after Spinal Cord Injury." <i>The Journal of Neuroscience</i> . Vol. 24, No. 9, pp. 2143-2155.
C329	Cao, Renhui, Anna Eriksson, Hajime Kubo, Kari Alitalo, Yihai Cao, Johan Thyberg. March 19, 2004. "Comparative Evaluation of FGF-2, VEGF-A, and VEGF-C-Induced Angiogenesis, Lymphangiogenesis, Vascular Fenestrations, and Permeability." <i>Circulation Research</i> . Vol. 94, pp. 664-670.
C330	Anthony, Shawn G. March 28-April 1, 2004. "Self-Assembling Nanofiber Matrix for Bone Regeneration." <i>The 22nd ACS National Meeting</i> . Anaheim, CA.
C331	Donners, Jack J. M. March 28-April 1, 2004. "Growth Factor Binding Self-Assembling Nanofiber Networks for Tissue Regeneration." <i>The 22nd ACS National Meeting</i> . Anaheim, CA.
C332	Nikulina Elena, J. Lille Tidwell, Hai Ning Dai, Barbara S. Bregman, and Marie T. Filbin. June 8, 2004. "The Phosphodiesterase Inhibitor Rolipram Delivered after a Spinal Cord Lesion Promotes Axonal Regeneration and Functional Recovery." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 101, No. 23, pp. 8786-8790.
C333	Pearse, Damien D., Francisco C. Pereira, Alexander E. Marcillo, Margaret L. Bates, Yerko A. Bermocil, Marie T. Filbin, and Mary Bartlett Bunge. June 2004. "cAMP and Schwann Cells Promote Axonal Growth and Functional Recovery After Spinal Cord Injury." <i>Nature Medicine</i> . Vol. 10, No. 6, pp. 610-616.
C334	Lu, Paul, Hong Yang, Leonard L. Jones, Marie T. Filbin, and Mark H. Tuszynski. July 14, 2004. "Combinatorial Therapy with Neurotrophins and cAMP Promotes Axonal Regeneration beyond Sites of Spinal Cord Injury." <i>The Journal of Neuroscience</i> . Vol. 24, No. 28, pp. 6402-6409.
C335	Lee, K. W., J. J. Yoon, J. H. Lee, S. Y. Kim, H. J. Jung, S. J. Kim, J. W. Joh, H. H. Lee, D. S. Lee, and S. K. Lee. 2004. "Sustained Release of Vascular Endothelial Growth Factor From Calcium-Induced Alginate Hydrogels Reinforced by Heparin and Chitosan." <i>Transplantation Proceedings</i> . Vol. 36, pp. 2464-2465.
C336	Matsumura, Sachiko, Shinobu Uemura, and Hisakazu Mihara. 2004. "Fabrication of Nanofibers with

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1-446A/GPTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
		Application Number		10/645,304	
		Filing Date		August 21, 2003	
		First Named Inventor		Samuel I. STUPP et al.	
		Art Unit		1654	
		Examiner Name		Marcela M. Cordero Garcia	
		Attorney Docket Number		NANO 104 US2 (NU 22070)	
Sheet	21	of			21

		Uniform Morphology by Self-Assembly of Designed Peptides." <i>Chem. Eur. J.</i> Vol. 10, pp. 2789-2794.	
	C337	Sieminski, A. L., R. P. Heibel, and K. J. Gooch. 2004. "The Relative Magnitudes of Endothelial Force Generation and Matrix Stiffness Modulate Capillary Morphogenesis in Vitro." <i>Experimental Cell Research</i> . Vol. 297, pp. 574-584.	
	C338	Vandermeulen, Guido W. M. and Harm-Anton Klok. 2004. "Peptide/Protein Hybrid Materials: Enhanced Control of Structure and Improved Performance through Conjugation of Biological and Synthetic Polymers." <i>Macromolecular Bioscience</i> . Vol. 4, pp. 383-398.	
	C339	Wang, Lin-Fa and Meng Yu. 2004. "Epitope Identification and Discovery Using Phage Display Libraries: Applications in Vaccine Development and Diagnostics." <i>Current Drug Targets</i> . Vol. 5, No. 1, pp. 1-15.	
	C340	Bull, Steve R., Mustafa O. Guler, Rafael E. Briss, Thomas J. Mende, and Samuel I. Stupp. 2005. "Self-Assembled Peptide Amphiphile Nanofibers Conjugated to MRI Contrast Agents." <i>Nano Letters</i> . Vol. 5, No. 1, pp. 1-4.	
	C341	Guler, Mustafa O., Stephen Soukarene, James F. Hulvat, and Samuel I. Stupp. 2005. "Presentation and Recognition of Biotin on Nanofibers Formed by Branched Peptide Amphiphiles." <i>Nano Letters</i> . Vol. 5, No. 2, pp. 249-252.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*Applicant's unique citation designation number (optional). *Applicant is to place a check mark here if English language Translation is attached

Examiner Signature	Date Considered
--------------------	-----------------